

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/8/2017

Ot	ad: Wang, Gary hers: Bowling, Linda		Date: 9/12/2017 Time: 9:04	
10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /		)		
EPRESENTATIVE(S	5).			
	PRE-INSP	PECTION REVIEW		
Marathon Oil	Company			- 1
Well Name:	Tribal EI-30 Tensleep			
Well Type:	Enhanced Recovery (2R)			- 1
- MAN	tus: AC (ACTIVE) as of 12/31	/2002		- 1
Oil Field: Location:	Steamboat Butte SWNE S5 T3N R1W			
Indian Countr				
Last Inspection		Allowable Inj Pressure:	1830 /	
Last MIT:	Pass 6/3/2015	Annulus Pressure From La	MII: 1000	
elect One)	Plugging Post-Closure	Routine Witness MIT Dat	Enterother e	7
elect One)	Plugging Post-Closure	Routine Witness MIT Dat  Init	e_ghslg	
NSPECTION TYPE select One)  DESERVED VALUE Tubing Gauge:	Plugging Post-Closure  S: Yes Pressure: U	Routine Witness MIT Dat  Init  EFA 990 : (0-2000)	e <u>9/25/19</u> sials <u>73</u> auge Owner: EPA	
elect One) BSERVED VALUE	Plugging Post-Closure  S: Yes Pressure: U	Routine   Dat	e <u>9/25/19</u> sials <u>73</u> auge Owner: EPA	A erator
elect One)  BSERVED VALUE  Tubing Gauge:	Plugging Post-Closure  S:  Yes Pressure:  No Gauge Range:	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig 0-2000 psig  O openel psig  O openel psig	e <u>ghsh</u> ials <u>B</u> auge Owner: EPA	A crator
BSERVED VALUE Tubing Gauge: Annulus Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range:	Routine Witness MIT  Dat  Witness MIT  Init  EPA 990 · (0-2000)  J: 1060 / L: psig 0-2000 psig  O opened psig 0-2000 psig	auge Owner: PPA	erator A
BSERVED VALUE Tubing Gauge:	Plugging Post-Closure  S: Yes Pressure: U No Gauge Range:  Yes Pressure:	Routine Witness MIT  Dat  For 990 · (0-2000)  J: 1060 / L: psig 0 - 2000 psig  O opened psig psig psig psig psig	auge Owner: PPA	erator A
BSERVED VALUE Tubing Gauge: Annulus Gauge: Bradenhead Gauge:	Plugging Post-Closure  S: Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range:	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig 0 - 2000 psig  O opened psig psig psig  psig psig	auge Owner: PPA  auge Owner: EPA  auge Owner: EPA  ope  auge Owner: EPA  Ope	a crator a crator
BSERVED VALUE Tubing Gauge: Annulus Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: Pressure: Pressure: Pressure:	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig 0 - 2000 psig  O opened psig psig psig psig psig	auge Owner: PPA	a crator a crator
BSERVED VALUE Tubing Gauge: Annulus Gauge: Bradenhead Gauge: Pump Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range:	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig 0 - 2000 psig  O opened psig psig psig psig psig psig psig	auge Owner: PPA  auge Owner: EPA  auge Owner: EPA  auge Owner: EPA  auge Owner: EPA  Ope	erator A erator A erator
BSERVED VALUE Tubing Gauge: Annulus Gauge: Bradenhead Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Active	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig 0 - 2000 psig  O opend psig psig psig psig psig psig  Psig psig Psig Psig Psig Psig Psig Psig Psig P	auge Owner: PPA	erator A erator A erator
BSERVED VALUE Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:  Pump Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Active Being Reworked	Routine Witness MIT  Init  EFA 940 · (0-2000)  U: 10 60 / L: psig 0 - 2000 psig  Psig psig psig psig  Not Injecting Production  Patental Date  Init  I	auge Owner: PPA  auge Owner: EPA  auge Owner: EPA  auge Owner: EPA  auge Owner: EPA  Ope	erator A erator A erator
BSERVED VALUE Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:  Pump Gauge:	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Active Being Reworked	Routine Witness MIT  Init  EFA 940 · (0-2000)  U: 1060 / L: psig O - 2000 psig  O opend psig psig psig psig  psig  Production  Plugged Under G	auge Owner: PPA	erator A erator A erator
BSERVED VALUE Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:  Pump Gauge:  Operating Status: (Select One)	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Active Being Reworked	Routine Witness MIT  Init  EFA 940 · (0-2000)  U: 10 60 / L: psig 0 - 2000 psig  Psig psig psig psig  Not Injecting Production  Patental Date  Init  I	auge Owner: PPA  auge O	erator A erator A erator A erator
BSERVED VALUE Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:  Pump Gauge:  Operating Status: (Select One)	Plugging Post-Closure  S:  Yes Pressure: No Gauge Range: No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure: No Gauge Range: Active Being Reworked	Routine Witness MIT  Init  EFA 990 · (0-2000)  U: 1060 / L: psig O - 2000 psig  O ofend psig psig psig psig  Psig Production  1730 BPD  57293 BBL	auge Owner: PPA  auge O	erator A erator A erator A erator

# Inspection Report For Well: WY20000 - 02141 (PAGE 2)

	No					
omments and site	conditions	observed du	ring inspection	n:		
PS: GPS File ID: _						
gnature of EPA Inspec	tor(s):	Coshop				



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street Denver, CO 80202-1129 Phone 800-227-8917 www.epa.gov/region08

## NOTICE OF INSPECTION

Date: 4/12/17	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C §300f et seq).
Hour: 8210	
Firm Name: MER	-17 ENERGY
Firm Address: 2	I MANERICK SPRING RD, KINNEAR, WY 82516

## REASON FOR INSPECTION

For the purpose of inspection records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

# Section 1445(b) of the Safe Drinking Water Act is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2)[of this section of the SDWA], the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (A) a national primary drinking water regulation prescribed under section 300g-1 of this title, (B) an applicable underground injection control program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a) of this section, or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this subchapter, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) of this section or which are pertinent to any financial assistance under this subchapter.

HANG LEARY) WANTY

Inspector's Name & Title (Print)

Inspector's Signature



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

## REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

AUG | 2 1997

Ref: 8ENF-T

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Eugene M. Grant Regulatory Coordinator Rocky Mountain Region Marathon Oil Company 1501 Stampede Avenue Cody, WY 82414-4721

Re: UNDERGROUND INJECTION CONTROL (UIC)
Allowable Maximum Injection Pressures

Steamboat Butte Field Fremont County, WY

Dear Mr. Grant:

This letter is being sent as a reminder of the current allowable surface injection pressures for Marathon's injection wells in the Steamboat Butte Field on the Wind River Indian Reservation in Wyoming. The allowable injection pressures are shown below:

Well Name	EPA Number	Allowable Pressure
Nugget Injector		
Tribal CI-24	WY2621-02137	1033 psig
Tribal CI-1	WY2000-02145	1360 psig
Tribal EI-14	WY2000-02131	1400 psig
Phosphoria Injector		
Brinkerhoff #6	WY2000-02134	2255 psig
Tribal CI-22	WY2000-02142	2200 psig
Tribal CI-23	WY2000-02139	2300 psig
Tribal EI-26	WY2000-02129	2190 psig
Tensleep Injector		
Brinkerhoff #4	WY2000-02133	1835 psig
Tribal CI-27	WY2000-02146	1875 psig
Tribal CI-15	WY2000-02140	1825 psig
Tribal CI-30X	WY2000-02143	1865 psig
Tribal CI-31	WY2000-02138	1900 psig
Tribal EI-30	WY2000-02141	1860 psig
Tribal S-1	WY2000-02130	1805 psig

The pressure limits shown above were calculated using formation fracture gradients of 0.70 psi/ft for the Nugget (except well CI-24 which was permitted using a gradient of 0.638); 0.77 psi/ft for the Phosphoria; and 0.70 psi/ft for the Tensleep. These gradients were obtained from a step rate test of the Nugget; and fracture stimulation treatments of the Phosphoria and Tensleep performed in three separate wells during 1989-1991 by the previous operator of the field, Chevron USA. Maximum pressures were calculated using the formula shown below:

Pm = [FG - 0.433 (SG)] d

Where: Pm = maximum surface injection pressure at wellhead (psig)

FG = fracture gradient (psi/ft)

SG = specific gravity of injected fluid (1.004) d = depth to top of injection perforations

These injection pressures are recorded in our computer data base and will be available for use during field inspections in order to verify that allowable injection pressures are not being exceeded, and for comparison with maximum pressures recorded on Annual Monitoring Reports. If you require a higher injection pressure for continued operation of a well(s), you may conduct a step-rate test of the injection zone and request an increase based on the test results. However, this test may, or may not, indicate that a higher injection pressure can be approved for the well(s).

If you have any questions concerning this letter, or do not agree with the listed pressure limits, you may contact John Carson at (303) 312-6203. Also, please direct all correspondence to the attention of John Carson at Mail Code 8ENF-T.

Sincerely.

Sharon L. Kercher, Director Technical Enforcement Program

cc: Mr. Stuart Cerovski
Bureau of Land Management
Lander resource Area
P.O. Box 589
Lander, WY 82520-0589

# Marathon (Cherron) - Steamboat Butte Tribal C-32 (WY2611-03564) (Permitted well, Now PR) Pents: 6744-6750 - Tensleep Never Convented Max Press: 2007 psi Used F.G. 0,698 psi/ft from frac, treatment UIC Max: Not in VIC- Well neven converted of nearby well CI-24 (WY2621-02137) (Permitted well.) V Penfs: 5298-5350 Nugget & 6543-658 (3) Phosphonia?) Max Press 1033 psi Using F.G. 0.638 from SR. Tonthis well on UIC Max 1033 psi Nogget on 3/4/91 Inj. 0 ? mb (1080psi) O Brikenhoff#4 (Wy 2000-02/33) Pents: 6904-6996 - Tensleep Max Press: 2900 psi (Inventory by operator) eneuron VICMax: 1787 751 1n, 0 \* Brinkerhoff = 6 (WYR000-02134) Penfs: 6709-6747 - Phosphoria

. . . .

Tripal C-1 (WY2000-021+5) Pents 5118-5255 - Nogget Max Press 1142 psi (Invention by spenator) UICMOX 1369 psi

Max Press 2900 psi (niverting by Joerator)

Inj. 0 2264 psi 2254 psi w/0.77 & 0.434 Inj. 0 2261 psi w/0.77 & 0.433

1044psi w/ 0.638 & 136/psi w/ 0.70

2

Tribal CI-15 (WY 2000-02140)

Penfs: 6868-7038 - Tensleep

Max Press 1860 psi (Inventory by Operator)

UIC Max 1853 ps.

Inj. 0

Tribal CI-22 (WY 2000-02142)

Penfs: 6868-7038 - Tensleep

Max Press 1860 psi (Inventory by Operator)

Tribal CI-22 (WY 2000-02142)

. . . .

Penfs 6544-6588 - Phosphoria

Max Press 2000 psi (Inventory by Operator)

UICMAY 2208 psi Well is PBD 1530'; Marstron

Inj. 0 2199 Worm will complete well in Frontier

or P&A

\* Tribal CI-23 (NY 2000-02139)

Penfs: 6836-6882 - Phosphonia

Max Press 2100 psi (Inventory by Operator)

SIC Max 2306 psi

Inj. 0

Tripal CI-27 (WY 2621-02146)
Perfs: 7056-7182-Tensleep
Max Press: 1990 psi (Enventory by pperator)
UICMax 1887 psi
Lij. 0

TribalCI-30X (WY2000-02143.)
Pents: 7004-7202 - Tensleep
MaxPness 2260 (Inventory by Operator)
UICMax: 1873 psi
Inj. 0

3

Tribal CI-31 (Wy 2000-02138)

Pents. 7144-7284 - Tensleep To WO & Pent up to 7036'

Max Press; 2100 psi (Inventory by Operator)

UIC Max 1910 psi

Ini. 0

Tribal EI-14 (Wy 2000-02131)

Perfs: 5260-5340-Nugget

Max Press: 2680 psi (Inventory by Operator)

VIC Max 1407 psi

Inj. 0 1404 psi w/0.70 × 6.433

1399 psi w/0.70 × 6.434

. . . .

\* Tribal EI-26 (WY 2000-02129)

Penfs: 4520-6564-Phosphonia

Max Press 1800psi (Inventory by Operator)

VIC Max: 2200psi

Inj. 0

Tribal EI-30 (WY2000-0214!)

Pents 4991-7148 - Tensleep

Max Press 1700 psi (Inventory by operator)

UIC Max 1869 psi

Inj. O

Tribal S-1 (WY 2000-02130)

Perfs: 6486-6950 - Tensleep

Max Press 1750psi (Inventory by Operator)

VIC May 1856 psi

Fri. 0



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#### REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

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Phosphoria Injector			
Brinkerhoff #6	WY2000-02134	2255	psig
Tribal CI-22	WY2000-02142		psig
Tribal CI-23	WY2000-02139		psig
Tribal EI-26	WY2000-02129		psig
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Brinkerhoff #4	WY2000-02133	1835	psig
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Tribal CI-15	WY2000-02140	1825	psig
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Tribal CI-31	WY2000-02138	1900	psig
Tribal EI-30	WY2000-02141	1860	psig
Tribal S-1	WY2000-02130	1805	psig



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These injection pressures are recorded in our computer data base and will be available for use during field inspections in order to verify that allowable injection pressures are not being exceeded, and for comparison with maximum pressures recorded on Annual Monitoring Reports. If you require a higher injection pressure for continued operation of a well(s), you may conduct a step-rate test of the injection zone and request an increase based on the test results. However, this test may, or may not, indicate that a higher injection pressure can be approved for the well(s).

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Sincerely,

Sharon L. Kercher, Director Technical Enforcement Program

cc: Mr. Stuart Cerovski
Bureau of Land Management
Lander resource Area
P.O. Box 589
Lander, WY 82520-0589

Ref: 8ENF-T

AUG | 2 1997

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Phosphoria Injector			
Brinkerhoff #6 Tribal CI-22 Tribal CI-23 Tribal EI-26	WY2000-02134 WY2000-02142 WY2000-02139 WY2000-02129	2200 2300	psig psig psig psig
Tensleep Injector			
Brinkerhoff #4 Tribal CI-27 Tribal CI-15 Tribal CI-30X Tribal CI-31 Tribal EI-30 Tribal S-1	WY2000-02133 WY2000-02146 WY2000-02140 WY2000-02143 WY2000-02138 WY2000-02141 WY2000-02130	1875 1825 1865 1900 1860	psig psig psig psig psig psig psig

FNF-T 7/10/97

P	S Form 3800, April 1995 Restricted Certified Fee Whom & D. Whom & D. Date, & Addr. Postmark	Post Office, Sta	Street & Number	Receipt 1 Receip	D
	Special Delivei Restricted Deli Return Receip Whom & Date Return Receipt S Date, & Address TOTAL Posta	ce, Sta	Number	Servi ot for nce C	105
	MR EUGENE M GRANT REGULATORY COORDII ROCKY MOUNTAIN REGULATION OIL COMP. 1501 STAMPEDE AVE CODY WY 82414-47	ANY NUE	413 O	or Certified Mail Coverage Provided. International Mail (See reverse)	575 780

Complete items 1 and/or 2 for additional services AGC Complete items 3, 45, and 45.  Print your name and address on the reverse of this form so the card to you.  Attach this form to the front of the mailpiece, or on the back it permit.  Write "Return Receipt Requested" on the mailpiece below the The Return Receipt will show to whom the article was delivered.	hat we can return this space does not action number.	following services (for an extra fee):  1.		
MR EUGENE M GRANT REGULATORY COORDINATOR ROCKY MOUNTAIN REGION MARATHON OIL COMPANY 1501 STAMPEDE AVENUE CODY WY 82414-4721	4b. Service	5 2/2 660  Type  ed		
5. Received By: (Print Name)  6. Signature (Addressee or Agent)  X		Addressee's Address (Only if requested and fee is paid)		

Late mIT?

# Inspection Report for Well WY2000-02141

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION
This form was printed on 05/16/1997.

Marathon Oil Company, Cody, WY EI-30 STEAMBOAT BUTTE	Op ID MAR04 2R (PA) as of 01/01/1995 05 03N 01W
Indian? Yes, Wind River	Compliance staff: CARSON
PRE-INSPECT Last inspection: 05/22/1995	ION REVIEW Last MIT: Passed 10/21/1993
Inj Pressure Reported 0 Allowable 1869	197-TA-98 12194 CB Need 96
Wellhead equipment	
Inj Pressure at pump	psig Gauge range (0-3000) (O psig
Injection RateBWPD Slow Meter Present [X]Yes []No	Located at [ ] WELL [ ] PUMP
Meter Type Hallburt	on Mc-A
Seter Type Halliburt	
[ ]Non-resettable [X]Rese	ettable [ ]Rate Indicator [ ]Other
[ ]Non-resettable [ X]Rese	ettable [ ]Rate Indicator [ ]Other  ]PA [ ]Shut in [ ]Under Construction  ow the negatives are numbered:  REVIEWED
[ ]Non-resettable [ X]Rese	ettable [ ]Rate Indicator [ ]Other ]PA [ ]Shut in [ ]Under Construction

See back of page for comments, site conditions, and compliance followup.

# UIC Inspection

	N.	
nature of EPA Inspector(s) Corel has Bourden + But	na Perk	
nature of EPA Inspector(s) Gral her Bourdum + But	na Cent	
nature of EPA Inspector(s) Gral her Bourdum + But	na Cent	
nature of EPA Inspector(s) Gral her Bourdum + But	na Cent	
nature of EPA Inspector(s) Gral her Bowdu + But	na Cerk	<u>-</u>
OFFICE USE ONLY - COMPLIANCE FOLLOWUP	no Cint	[ ] No
	Yes Yes	[ ] No [ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits	Yes	
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Fransfer of ownership? [ ] Yes [ ] No OLD	Yes NEW	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Fransfer of ownership? [ ] Yes [ ] No OLD Change in operating status (computer update) [ ] Yes	Yes NEW	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Fransfer of ownership? [ ] Yes [ ] No OLD	Yes NEW	[ ] No

#### ENFORCEMENT CONFIDENTIAL

Compliance Status for Well WY2000-02141 05/16/1997

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

Marathon Oil Company, Cody, WY

Op ID MAR04

EI-30

2R TA as of 01/01/1995

STEAMBOAT BUTTE

05 03N 01W

Indian? Yes, Wind River

Comment: Purchased from Chevron

Compliance staff: CARSON

Type of Authorization: Rule authorized on promulgation date 11/25/88

LAST INSPECTION

LAST MIT

05/22/1995

Passed 10/21/1993

Type of inspection: Routine

EPA witnessed? No

Possible violations identified? No Operator during MIT\*CVR04\*

Operator during insp\*CVR02\*

Next required MIT: 12/31/1996

MONITORING REPORTS

1996 report due **02/15/1997** 

received 02/27/1997

OPERATING CONDITIONS

Inj Pressure

Reported Allowable

1869

FINANCIAL RESPONSIBILITY: \*CVR02FS6\*

Established by , ,

Type of Demonstration: Financial Statement Amount \*\$0.00\*

If Financial Statement, date next is due: \* / / \* Comment:

Does the compliance action tracking system show any currently unresolved violations for WY02141? NO. Does the inventory database show this well as the target of an enforcement action? NO.

#### LEGEND:

This mark sets off the values involved in a strong discrepancy: operator violation or database error.

There are 4 such values.

This mark sets off something for the user (EPA) to notice, such as a field from a missing record or a due date within 90 days. There are 6 such values.

> Compliance Status Page 1 of 2 pages

## ENFORCEMENT CONFIDENTIAL

Compliance Status for Well WY2000-02141 05/16/1997

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

Marathon Oil Company, Cody, WY Op ID MAR04

EI-30 2R TA as of 01/01/1995

STEAMBOAT BUTTE 05 03N 01W

Indian? Yes, Wind River Compliance staff: CARSON

Comment: Purchased from Chevron

## MESSAGES DESCRIBING VIOLATIONS OR WARNING CONDITIONS:

v[2] The next MIT is overdue.

v[7] The monitoring report was received late.

w[2] The FRID is for a different operator than OPID.

w[4] The latest inspection was for other than the current operator.

w[10] The latest MIT was for other than the current operator.

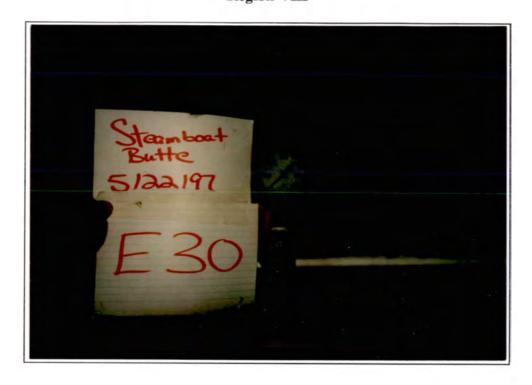
w[12] The FRID in WELLS123 doesn't appear in FRFILE.

# Official Photograph U.S. Environmental Protection Agency Region VIII



EPA II	) Num	ber:	WY2000	-02141						
Well Na	ame:	EI-3	0							
Locatio	on: 0	5 03N	V 01W	Wind Riv	ver					
Field:	Steam	nboat	Butte		(	County:			State:	WY
Photo Date: 05/22/97				Time	: 4:55	5 p.m.	Negativ	e Number:	13	
Weathe	er:		(Sun)	(Ha	aze)	(C	loudy	(Rain)	(Snow)	
Photog	raphei	т: В	arbara Co	nklin						
Witness	s: Ca	Carol Bowden								
Camera	ı: M	Minolta				Film T	ype:	Kodak	ASA:	100
Process	sed By	r: I	Foto Fast	Negativ	e Loc	ation:	Bino	der for Negatives	s by Complia	nce Fil

# Official Photograph U.S. Environmental Protection Agency Region VIII



EPA ID	Nun	nber:	WY2000	0-02141							
Well Na	ame:	EI-3	0								
Locatio	n: 0	5 03N	01W	Wind Riv	er						
Field:	Steam	mboat	Butte		Co	ounty:				State:	WY
Photo I	Photo Date: 05/22/97		Т	ime:	4:55	p.m.	Neg	Negative Number:		14	
Weathe	r:		(Sun)	(Haz	e)	(Cl	oudy	(Ra	in)	(Snow)	
Photogr	aphe	r: B	arbara Co	nklin							
Witness	: C	arol Bo	owden								
Camera	: M	Minolta			F	Film Ty	oe:	Kodak		ASA:	100
Process	ed By	r: Fo	oto Fast	Negative	Locat	tion:	Bino	ler for Nega	tives b	y Complia	nce Fil

# Inspection Report for Well WY2000-02141

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION
This form was printed on 05/11/1995.

Chevron Production Company,	Evension W/W ID CVP02
EI-30 STEAMBOAT BUTTE	2R AC as of / /
Indian? Yes, WIND RIVER	Compliance staff: CARSON
PRE-INS	SPECTION REVIEW /1994 Last MIT: Passed 10/21/1993
Reported 2000 Allowable 1869	e
Wellhead equipment	5.7.
]Workover [ ]Enforcement [  SSERVED VALUES  j Pressure at wellhead	Response to emergency or complaint [ ]Other
]Workover [ ]Enforcement [  SSERVED VALUES  j Pressure at wellhead  j Pressure at pump  nulus Pressure	ine [ ]PA [ ]Compliance [ ]Construction ]Response to emergency or complaint [ ]Othe  psig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES     Pressure at wellhead   Pressure at pump   nulus Pressure   essure Gauge Present [ \( \sumeq \) Yes	Response to emergency or complaint [ ]Other  psig Gauge range
Workover [ ]Enforcement [ SSERVED VALUES  j Pressure at wellhead  j Pressure at pump  nulus Pressure  essure Gauge Present [ \( \sqrt{1}\) Yes  jection Rate	Response to emergency or complaint   Other
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Response to emergency or complaint [ ]Other    Paig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Response to emergency or complaint [ ]Other    psig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Response to emergency or complaint [ ]Other  psig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Psig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Response to emergency or complaint [ ]Other   Psig Gauge range
Workover [ ] Enforcement [   SSERVED VALUES   Pressure at wellhead	Psig Gauge range

See back of page for comments, site conditions, and compliance followup.

# UIC Inspection

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	,	
nature of EPA Inspector(s) Chuck Williams & Sough	as ref	niter
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nature of EPA Inspector(s) Chuck Williams & Sough	as of	niter
nature of EPA Inspector(s) Chuck Williams & Sough	as of	niter
	as of	niter
OFFICE USE ONLY - COMPLIANCE FOLLOWUP	Yes	niter (
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits	Yes Yes	[] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site		
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Transfer of ownership? [ ] Yes [ ] No OLD	Yes	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Transfer of ownership? [ ] Yes [ ] No OLD Change in operating status (computer update) [ ] Yes	Yes NEW	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Transfer of ownership? [] Yes [] No OLD	Yes NEW	[ ] No

# UNITED STARS ENVIRONMENTAL PROTEC

TEC AGENC

REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

JUL 1 8 1995

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

To Injection Well Operators

RE: UNDERGROUND INJECTION CONTROL (UIC)

Notice of Noncompliance Excess Injection Pressure

Dear Operator:

The Annual Disposal/Injection Well Monitoring Reports (EPA Form 7520-11) submitted by your office for the year 1994, indicate that the wells shown on the enclosed list were injecting at pressures in excess of their allowable maximum surface injection pressures. The list also indicates the highest reported pressures during the year and allowable pressures. Operation of an injection well at pressures greater than authorized is a violation of the Safe Drinking Water Act and may result in enforcement action. Therefore, you are directed to maintain the injection pressures of these wells at or below their maximum allowable limits.

Within thirty (30) days of receipt of this letter, please respond in writing describing: 1) what action has been taken to correct this situation; 2) how you intend to prevent any recurrence in the future; or 3) why the pressure information is in error. If you believe a higher injection pressure is needed for continued operation of a well, you may conduct a step-rate injectivity test of the injection zone and request an increase based on the test results. However, this test may, or may not, indicate that a higher injection pressure can be approved for the well.

If you have any questions concerning this letter, you may contact John Carson at (303) 293-1435. Also, please direct all correspondence to the attention of John Carson at Mail Code 8WM-DW.

Sincerely

Thomas J. Pike

Chief

UIC Implementation Section

Enclosure: List of Wells and Pressures

# OPERATORS THAT EXCEEDED THEIR MAXIMUM INJECTION PRESSURE

Wells Operated by: Chevron U.S.A., Inc.

WELLID	WELLNAME	FIELDNAME	TYPE	STATUS	REPORTED PRESSURE	ALLOWABLE PRESSURE
UT02394	WVU FED #31	WONSITS VALLEY	2R	AC	1780	1613
UT02395	RW #11 (34-27B)	RED-WASH		AC	1850-	1797
-U 396-	RW #14 (14-13B)	RED WASH	2R	AC	1830	1751
₩ 398	RW #34 (23-14B)	RED WASH	2R	AC	1800	1730-
UT02400	RW #56 (41-28B)	RED WASH	2R	AC	1850	1650
UT02407-	RW-#148-(13-22B)	RED WASH	2R	AC	1950	1892
UT02409	RWU #156 (23-15B)	RED WASH	2R	AC	1700	1565
UT02416	RW #2 (14 24B)	RED WASH	2R	AC	1800	1767
UT02417	RW #7 (41-27B)	RED WASH	2R	AC	2050	1811
UT02420	RW #25 (23-23B)	RED WASH	2R	AC	1825	1652
UT02421	RW #59 (12-24B)	RED WASH	2R	AC	1830	1808
UT02421	RW #59 (12-24B)	RED WASH	2R	AC	1850	1808
UT02423	RW #91 (33 22B)	RED WASH	2R	AC-	1850	1849-
UT02424	RW #93 (43-27B)	RED WASH	2R	AC	2200	1783
UT02455	RW #275 (31-26B)	RED WASH	2R	AC	1850	1767
UT02455	RW #275 (31-26B)	RED WASH	2R	AC	1850	1767
UT02469	WVU FED #16	WONSITS VALLEY	2R	AC	1950	1613
UT02471	WVU STA #21	WONSITS VALLEY	2R	AC	1815	1647
Umn2479	WVFU #36	WONSITS VALLEY	2R	AC	1860	1660
U 183	WVU FED #41	WONSITS VALLEY	2R	AC	1830	1620
U102497	WVFU #67	WONSITS VALLEY	2R	AC	1780	1586
<b>ÛT</b> 02498	WVFU #68	WONSITS VALLEY	2R	AC	1800	1584
UT02501	WVU STA #72	WONSITS VALLEY	2R	AC	1950	1894
UT02502	WVU STATE #73	WONSITS VALLEY	2R	AC	1800	1598
UT02504	WVU FED #78	WONSITS VALLEY	2R	AC	1940	1647
UT02509	WVU 126	WONSITS VALLEY	2R	AC	1920	1616
UT02510	WVU FED #28-2	WONSITS VALLEY	2R	AC-	1850	1816-
ITT 12714	WVU FED #3-21-1D	GYPSUM HILLS	2R	AC	1900	1322
12715	SRU #8-I	GYPSUM HILLS	2R	AC	1890	1327
_J3098	WVU FED #66	WONSITS VALLEY	2R	AC	1800	1500
UT03721	10	GYPSUM HILLS	2R	AC	1790	1341
UT02722	COSTAS FEDERAL 2-20-	GYPSUM HILLS	2R	AC	1800	1359
UT037.77	WVFU #71-2	WONSITS VALLEY	2R	AC	1960	1873-

## OPERATORS THAT EXCEEDED THEIR MAXIMUM INJECTION PRESSURE

Wells Operated by: Chevron Production Company

WELLID	WELLNAME	FIELDNAME	TYPE	STATUS	PRESSURE	PRESSURE
WY02130	8-1	STEAMBOAT BUTTE	2R	TA	1900	1856-
WY02140	CI-15	STEAMBOAT BUTTE	2R	TA	1960	1853
W**^^141	EI-30	STEAMBOAT BUTTE	2R	TA	2000	1869
W '.43	CI-30X	STEAMBOAT BUTTE	2R	TA	1980	1873
WY0_146	CI-27	STEAMBOAT BUTTE	2R	TA	2000	1887

Inspection Report for Well WY2000-02141 UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

This form was printed on 07/29/94.	

Chevron Production Company, Eva EI-30 STEAMBOAT BUTTE	2R AC as of / / 05 03N 01W
Indian? Yes, WIND RIVER	Compliance staff: WILLIAMS
	ECTION REVIEW  B Last MIT: Passed 10/21/93
	,
Wellhead equipment She of INSPECTION TYPE [X]Routine	e [ ]PA [ ]Compliance [ ]Construction
Wellhead equipmentShe andShe andShe at wellhead/5 &	Response to emergency or complaint [ ]Other  psig Gauge range 0-5000 psig psig Gauge range psig
Wellhead equipment	Response to emergency or complaint [ ]Other  psig Gauge range 0-5000 psig psig Gauge range psig psig Gauge range psig psig Gauge range psig psig Gauge range psig
Wellhead equipmentShe andShe andShe at wellhead/She andShe at pump	Response to emergency or complaint [ ]Other  psig Gauge range 0-5000 psig psig Gauge range psig psig Gauge range psig psig Gauge range psig
Wellhead equipment	PA [ ]Compliance [ ]Construction Response to emergency or complaint [ ]Other Part   Pa
Wellhead equipment	Per [ ] PA [ ] Compliance [ ] Construction Response to emergency or complaint [ ] Other Part
Wellhead equipment	Response to emergency or complaint [ ]Other  So psig Gauge range 0-5000 psi psig Gauge range psi psig Gauge range psi psig Gauge range psi psig Gauge range psi  Do Cumulative Volume 7606  Located at [X]WELL [ ]PUM
Wellhead equipment	Response to emergency or complaint [ ]Other psig Gauge range 0-5000 psi psig Gauge range psi psig Gauge range psi psig Gauge range psi psig Cauge range psi psig Located at [X]WELL [ ]PUM

See back of page for comments, site conditions, and compliance followup.

# **UIC** Inspection

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nature of EPA In	spector(s)			
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nature of EPA In	spector(s)			
OFFICE USE ONLY	- COMPLIANCE FOLL	OWUP		<u> </u>
OFFICE USE ONLY Observed Inj Pre	- COMPLIANCE FOLL	OWUP	Limits Vyes	[ ] No
OFFICE USE ONLY Observed Inj Pre Acceptable fitti	- COMPLIANCE FOLL ssure/Rate/Volume ngs at site	OWUP Within Allowed	Limits / Yes	[ ] No
OFFICE USE ONLY Observed Inj Pre Acceptable fitti Transfer of owne	- COMPLIANCE FOLL ssure/Rate/Volume ngs at site rship? [] Yes	OWUP Within Allowed	Limits Yes Yes	[ ] No
OFFICE USE ONLY Observed Inj Pre Acceptable fitti Transfer of owne Change in operat	- COMPLIANCE FOLL ssure/Rate/Volumengs at site rship? [] Yes ing status (compu	OWUP Within Allowed  [ No OLD ter update) [	Limits Yes Yes NEW  Yes	
OFFICE USE ONLY Observed Inj Pre Acceptable fitti Transfer of owne	- COMPLIANCE FOLL ssure/Rate/Volume ngs at site rship? [] Yes	OWUP Within Allowed  [ No OLD ter update) [	Limits Yes Yes NEW  Yes	



## UNITED STA

# ENVIRONMENTAL PROTECTIC AGENCY

WYD 214/

#### REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

JUN 28 1994

Ref: 8WM-DW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Larry Leitzke Chevron U.S.A. Production Company P.O. Box 6004 Evanston, WY 82931

> UNDERGROUND INJECTION CONTROL (UIC) Fracture Gradient - Rule Authorized Class II Injection Wells Steamboat Butte Field Wind River Indian Reservation Fremont County, Wyoming

Dear Mr. Leitzke:

The Environmental Protection Agency (EPA) has recently established an acceptable sand-face fracture gradient for the above referenced field. The proposed sand-face fracture gradients and the maximum surface injection pressure (Pm) formula hereby set forth were developed from the review of data provided by Chevron. They will be used to calculate maximum injection pressures for all rule authorized wells in the referenced field in accordance with 40 CFR § 144.28 (f) (3) (ii).

The data provided by Chevron was from Step-Rate tests and ISIP information for the three (3) producing zones (Nugget, Phosphoria and Tensleep formations) in the Steamboat Butte Field. Based on the data submitted, the following fracture gradients were estimated:

TABLE 1

FORMATION	ISIP	FRACTURE GRADIENT	SOURCE OF EST.
Nugget	1 13	0.638	Step-Rate Test Permitted Well
Nugget	1473	0.70	ISIP after SRT
Phosphoria	2100	0.77	ISIP
Tensleep	1800	0.70	ISIP

These values shall then apply to all Class II injection wells in the field. Until additional information is provided justifying a high fracture for the fourteen (14) injection wells, the maximum allowable surface injection pressure (Pm), based on the above gradients, will be initiated and enforced, see Table 2 enclosure.

Should you have any questions regarding this action, please give Chuck Williams a call at (303) 293-1550. Thank you for your continued cooperation.

D. 1716.

Thomas J. Pik

UIC Implementation Section

#### Enclosure

cc: Shoshone and Arapaho Tribes
Joint Business Council
P. O. Box 217
Fort Washakie, WY 82514

Mr. Stuart Cerovski BLM - Lander Reserve Area P. O. Box 589 Lander, WY 82502

# CHEVRON U.S.A. PRODUCTION COMPANY

## MAXIMUM INJECTION PRESSURE

STEAMBOAT BUTTE FIELD WIND RIVER INDIAN RESERVATION FREMONT COUNTY, WYOMING

#### TABLE 2

CHEVRON WELL NO.	EPA WELL ID. NO.	CALC MAX INJ PRESS (Pm)	DEPTH TO INJ ZONE (ft)	FRACTURE GRAD (psi/ft)	SP. GR.	STATUS
		NUGGET	FORMATI	ON		
CI-24	WY02137	1033	5298	.638	.999	SI
CI-1	WY02145	1369	5118	.70	.999	AC
EI-14	WY02131	1407	5260	.70	.999	SI
	- 60	PHOSPH	ORIA FORM	MATION		
BRINK-6	WY02134	2264	6709	.77	.999	SI
CI-23	WY02139	2239	6636	.77	.999	AC
CI-22	WY02142	2208	6544	.77	.999	AC
EI-26	WY2129	2200	6520	.77	.999	AC
		TENSLE	EP FORMA	TION		
BRINK-4	WY02133	1846	6904	.70	.999	SI
CI-31	WY02138	1910	7144	.70	.999	AC
CI-15	WY02140	1837	6868	.70	.999	AC
EI-30	WY02141	1869	6991	.70	.999	AC
CI-30X	WY02143	1873	7004	.70	.999	AC
CI-27	WY02146	1887	7056	.70	.999	AC
S-1	WY02130	1815	6786	.70	.999	AC

Pm = [FG - 0.433 (SG)] d

Where:

Pm = maximum surface injection pressure at
 wellhead - pounds per square inch gauge
 (psig)

SG = specific gravity of injected fluid - water analysis

d = depth to top of injection perforations

# Inspection Report for Well WY2000-02141

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION
This form was printed on 09/22/93.

Chevron Production Company, E E-30 STEAMBOAT BUTTE	vanston, Word ID CVR02  2R AC as of / / 05 03N 01W
Indian? Yes, WIND RIVER	Compliance staff: WILLIAMS
	PECTION REVIEW 92 Last MIT: Passed 02/04/91
Wellhead equipment	
INSPECTION TYPE [ Routi [ ]Workover [ ]Enforcement [ OBSERVED VALUES Inj Pressure at wellhead/	Response to emergency or complaint [ ]Other
INSPECTION TYPE [ ]Routi [ ]Workover [ ]Enforcement [ OBSERVED VALUES Inj Pressure at wellhead	psig Gauge range <u>0-3000</u> psig
NSPECTION TYPE [ Routi	Response to emergency or complaint [ ]Other
NSPECTION TYPE [ ]Routi [ ]Workover [ ]Enforcement [ DBSERVED VALUES Inj Pressure at wellhead	Response to emergency or complaint [ ]Other [ ]O

See back of page for comments, site conditions, and compliance followup.

# UIC Inspection

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nature of E	PA Inspect	tor(s)					
ADDITOR HER	ONLY CO	ADI TANCE E	OT LOWID				
bserved In	ij Pressure	e/Rate/Vol		in Allow	ed Limits		[ ] No
bserved In	ij Pressure	e/Rate/Vol				Yes	
Observed In Acceptable	j Pressure fittings a	e/Rate/Volument site	ume With		ed Limits	Yes	
OFFICE USE Observed In Acceptable Transfer of	ij Pressure fittings a ownership	e/Rate/Volument site	ume With	o OLD	Salatan Para	Yes NEW	[ ] No [ ] No
bserved In acceptable ransfer of	ij Pressure fittings a ownership	e/Rate/Volu at site p? [] Yes status (con	ume With s [V] N mputer u	o OLD pdate)	[ ] Yes _	Yes NEW	[] No

#### ENFORCEMENT CONFIDENTIAL

Compliance Status for Well WY2000-02141 UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

Chevron Production Company, Evanston, WO ID CVR02

E-30

2R AC as of

STEAMBOAT BUTTE

05 03N 01W

Indian? Yes, WIND RIVER

Compliance staff: WILLIAMS

Comment:

Type of Authorization: Rule authorized on promulgation date 11/25/88

#### INSPECTION INFORMATION

Last inspection 03/16/92

Last MIT 02/04/91 Passed

Inspections to date: 02

Type of inspection: Routine

MITs to date: 01 EPA witnessed? No

Possible violations identified? No Operator during MIT CVR02 Operator during insp CVR02

Next required MIT: 02/04/96

MONITORING REPORTS 1992 report due 02/15/93 received 02/10/93

reviewed

/ /

OPERATING CONDITIONS

Inj Pressure 2200

Reported Allowable

FINANCIAL RESPONSIBILITY: CVR02FS3 Established by Chevron Production Company, Evanston, WY Type of Demonstration: Financial Statement Amount If Financial Statement, date next is due: 04/30/94

Comment:

Does the compliance action tracking system show any currently unresolved violations for WY02141? NO. Does the inventory database show this well as the target of an enforcement action? NO.

#### LEGEND:

This mark sets off the values involved in a strong discrepancy: operator violation or database error.

There are 2 such values.

There are no values marked for special notice by the user.

## **ENFORCEMENT CONFIDENTIAL**

Compliance Status for Well WY2000-02141 09/22/93 UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

Chevron Production Company, Evanston, Wap ID CVR02

E-30

2R AC as of / /

STEAMBOAT BUTTE 05 03N 01W

Indian? Yes, WIND RIVER

Compliance staff: WILLIAMS

Comment:

## MESSAGES DESCRIBING VIOLATIONS OR WARNING CONDITIONS:

v[9] The reported injection pressure exceeds the allowed pressure.

w[23] No review yet despite 45 days since receipt of monitoring report.

w[24] No pressure limit is given in the file of operating conditions.

# U. S. ENVIRONMENTAL PROTECTION AGENCY REGION VIII

# UIC PROGRAM COMPLIANCE FIELD INSPECTION REPORT

COMPANY: Chevron	REPRESEN	TATIVE: GA	n Beam	20
ADDRESS:	000	PH	ONE:	
FIELD/WELL NAME: E. 30	Steambre	nt Ido	Mo	
LOCATION /4; SEC.5; T	3N; R/W; COUN	TY: Effen	ont STATE	:Wyo
	RECORDS INSPEC			1
1) Injection Rate: Max	B/D; Ave	B/D;	Pint.Max	B/D
2) Inject. Pressure: Ave.	psig; Max	psi	g; Pmt.Max	psig
3) Cumulative Injected Volume	:B	bl Permi	t #: W402	141
4) Comments:				
General Surface Condition:	WELLHEAD INSPEC	ZTION Z		
Injection Rate: 2297  3) Inject. Pressure: (wellhead)		ocation: (a	32.691 H. t we 1) (at pum (pump)	100
	0-5.000	-		
Comments: O Annulus. (		_psig	kange	ps rg
Injected Water Source:				
Water Sampling Location/Techn	iques/Analyses			
General Remarks/Comments				
	11)		~12 <b>1</b>	
INSPECTOR(S): ///Jan	s / John t	2		
DATE: 3/16/92 1:21 P	m -	)		

RECORD OF . COMMUNICATION	COTHER (SPECIFY)
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Chevron called	for Eus, but call referred
7	
Cheuron will do	MIT on Tribal EZ-30
in Steamboat Bo	He Fld, Tomarrow, then
MIT results to	Gus. Told then to send in
Ethis well must	be E-30; WY02141
	2/4/1/ 50
(27/4/91) Ron Lacher T. C	on 45 min @ 550 PSL
Had wo loss h	annulus Fressine
	mption of injection.
- Mey / Jend Sunday	w pressure recording chart. If.
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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2405

JUN 1 3 1991

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 806-482-976

Ms. Jeanette NewVille Chevron U.S.A., Inc. P.O. Box 111 Riverton, WY 82501

RE:

Mechanical Integrity Test

WY02141

EPA Form #3560-1A

Dear Ms. NewVille:

It appears that in the past your Mechanical Integrity Test (MIT) results, which you have been sending to the Environmental Protection Agency (EPA), have been reported on an inappropriate form. They have been reported on "Bureau of Land Management Report Sundry Notices."

In the future, each Mechanical Integrity Test must be reported on the EPA "Mechanical Integrity Pressure Test Casing/ Tubing Annulus" form [EPA R8 3560-1A (8/89)]. This is necessary so that we may properly evaluate the test results. We are enclosing a copy of Form #3560-1A for your use.

We appreciate your cooperation in this matter, and you may contact me at (303) 293-1544 or Chuck Williams at (303) 293-1550.

Sincerely,

Thomas J. Pike, Chief

UIC Implementation Section

Enclosure

S Form 380	JU, J	ine 19	990								
Postmark o	TOTAL Post & Fees	Return Rec Date, & Ada	Return Rec to Whom &	Restricted	Special De	Certified F	Postage	P.O., State	Street & N	Sent to	ים
Ms. Jea Environ Chevron P.O. Bo Riverto	men U. ox 1	tal S.A 11	Coo	rdin nc.		or	P	806		CVRO2	284 908
	49					•	9			Mail Receipt Coverage Provided International Mail	976

. ()	
SENDER:  Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of thithat we can return this card to you. Attach this form to the front of the mailpiece, or back if space does not permit. Write "Return Receipt Requested" on the mailpiethe article number.  Ms. Jeanette NewVille Environmental Coordinator Chevron U.S.A., Inc. P.O. Box 111 Riverton, WY 82501	on the ce next to cent to CVR02 Insured CVR02 Insured COD Return Receipt for Merchandise  7. Date of Delivery
Signature (Addressee)     Signature (Agent)	8. Addressee's Address (Only if requested and fee is paid)
SI-I Grama	POMECTIC DETUDN DECEIPT
PS Form 3811; October 1990 #U.S. GPO: 1990-2	73-801 DOMED TO HELDING HEDDEN

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U. S. ENVIRONMENTAL PROTECTION AGENCY REGION VIII

Butch Preston, Riverton 307) 856-6228

UIC PROGRAM COMPLIANCE FIELD INSPECTION REPORT Field Foreman

ADDRESS: <i>Steam 60 at Batte</i> FIELD/WELL NAME: <u>E</u> -	30		0-365
SONE /4; SEC. 5; T3	<u>ν</u> ; R <u>/ω</u> ; COUNTY:	Fremont STATE	Wy
	RECORDS INSPECTION	<u> </u>	
1) Injection Rate: Max	B/D; Ave	B/D; Pmt.Max	B/D
2) <u>Inject. Pressure</u> : Ave	psig; Max	psig; Pmt.Max	psig
3) Cumulative Injected Volume:	Bb1	Permit #:	
4) Comments:			
	WELLHEAD INSPECTION	N	
General Surface Condition: [photos, (Y)(N)]	Good	(w)	
1) Injection Rate: 2/27	B/D; 2 Meter T	ype: 0-5000 ion: (at well)(at pur	
3) <u>Inject. Pressure</u> :(wellhead)	/350 psi	g; 3a)( <u>pump</u> )	psig
Kange:	psi	g Range:	psig
Comments: Tenskip in	yection zon	e 6991-71	48'
njected Water Source:			
Nater Sampling Location/Techni	ques/Analyses		
General Remarks/Comments	m- Val. 4/5	89: 305 16	chhla
Hall: burdon Flore	., .,		
INSPECTOR(S): Emmett Sch	lanite & Gus	Cholz	
	THE TOTAL	W/V/A	

Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 7/10/2014

Oth	ers: Breffle,	Don			Time:	9:23	am/ pi
ERATOR (only if di	ferent):	Arlen	· Arm	ejo			
PRESENTATIVE(S)	:	Lo	616 BJ	- Clai	-tribe		
	1	PRE-INSP	ECTION I	REVIEW	1		
Marathon Oil C	ompany						
Well Name: Well Type: Operating Statu Oil Field: Location: Indian Country	Steamboat E SWNE S5 T	Lecovery (2R) (E) as of 12/31 Butte T3N R1W	/2002				
Last Inspection. Last MIT:	10/3/2012 Pass 10/27/2	2010		Inj Pressure: ressure Fron	1830 n Last MIT: 1002		
BLACK = POSSIBL		e a principal			ista - Elor		
SPECTION TYPE:	Construct Plugging Post-Clos	ion / Workove	Routir	ss MIT	ers Enterec Date	ir   <sub>11</sub>  14	
SPECTION TYPE: lect One) SSERVED VALUES	Construct Plugging Post-Clos  Yes P	ure	Routir Witne	ss MIT	Date	ir µ/14 35 EPA ☐ Operato	r
SPECTION TYPE: lect One)  SSERVED VALUES	Construct Plugging Post-Clos  Yes P No G Yes P	ure ressure: <u>L</u>	Routing   Witne	ss MITpsig	DateS Initials	114 33 ≥ EPA	
SPECTION TYPE: lect One)  SSERVED VALUES Tubing Gauge:	Construct Plugging Post-Clos  Yes P No G Yes P No G Yes P	ure ressure: <u>L</u> Gauge Range: _ ressure: _	Routing   Witne	ne ss MIT  psig psig psig psig	Date	EPA Operato	r
SPECTION TYPE: lect One)  SSERVED VALUES Tubing Gauge:  Annulus Gauge:	Construct Plugging Post-Clos  Yes No G Yes No G Yes No G Yes P No G Yes P No G Yes P No G Yes P	ressure: L Gauge Range: _ ressure: _ Gauge Range: _ ressure: _ ressure: _	Routing   Witne	psig psig psig psig psig psig	Date	EPA Operato Operato EPA EPA EPA	r
SPECTION TYPE: lect One)  SSERVED VALUES Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:	Construct Plugging Post-Clos  Yes No G Yes No G Yes No G Yes P No G Yes P No G Yes P No G Yes P	ressure: Lauge Range: Lauge Ran	Routing   Witne	psig psig psig psig psig psig psig psig	Date	EPA Operato  EPA Operato  EPA Operato  EPA Operato Operato	r

PHOTOGRAPHS: Ye				
Comments and site condition	1			
GPS: GPS File ID:				
	1 200	hood		
Signature of EPA Inspector(s):  Data Entry	Lon Sill	iance Staff	Hard Copy Filing	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 1/15/14	Date:	7	115/14	
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Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8 :00

Firm Name: Marzthon

Firm Address: 27 Mavarist Springs Rd Kinnea, Wy

#### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

### SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Dan Brette

nspector's Signature

Original - Regional Office Copy Yellow Copy - Operator Copy

### Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/25/2012

Other		9=16	am/pm		
PERATOR (only if diffe					
	ient). Williams	verage of			
EPRESENTATIVE(S):					
	PRE-INSP	ECTION REVIE	W		
Marathon Oil Co	mpany				
Well Name: Well Type: Operating Status: Oil Field: Location: Indian Country:	Tribal EI-30 Tensleep Enhanced Recovery (2R) AC (ACTIVE) as of 12/31/ Steamboat Butte SWNE S5 T3N R1W X, Wind River	/2002			
Last Inspection: Last MIT:	10/19/2010 Pass 10/27/2010	Allowable Inj Pressu Annulus Pressure Fi		330 / 002	
SPECTION TYPE:	Construction / Workover	Acres -	nplaint U2 E19	theteo	
SPECTION TYPE:			Date _	there a lateral and a lateral	
	Construction / Workover Plugging Post-Closure	Response to Con Routine Witness MIT  : 1290 / L: 1290 psig	- 55-50	wolata 03	
BSERVED VALUES: Tubing Gauge:	Construction / Workover Plugging Post-Closure  Yes Pressure: <u>U</u>	Response to Col Routine Witness MIT  : 1240 psig  0 - 2000 psig	Date _ Initial _	er: EPA	ator
BSERVED VALUES: Tubing Gauge:	Construction / Workover Plugging Post-Closure  Yes Pressure: U No Gauge Range: Yes Pressure:	Response to Col Routine Witness MIT  : 1240 psig  0 - 2000 psig	Date Initial _ Gauge Owner	er: EPA Opera	ator
BSERVED VALUES: Tubing Gauge:	Construction / Workover Plugging Post-Closure  Yes Pressure: U No Gauge Range: Yes Pressure: No Gauge Range: Yes Pressure:	Response to Con Routine Witness MIT  : 1240 psig  0 - 2000 psig  psig psig psig	Date	er: EPA Opera Opera Opera Opera	ator ator

Page 1 of 2

Date (9/9/12
Initials B

Signature of EPA Inspector(s):  Data Entry	Compliance Sta	ff Hard Co	py Filing
	$\lambda > M$		
GPS: GPS File ID:			
Comments and site conditions	observed during inspection	1:	
≥ No			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 10/2/1L

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:00

Firm Name: Marathon Oil Co.

Firm Address: 27 Maveria

21 Maverick Springs Rd

Kinnear WY 82516

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Inspector's Signature



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08 2EB 2EB 11/2/10

NOV 0 4 2010

Ref: 8ENF-UFO

CERTIFIED MAIL 7005-0390-0000-4848-8840 RETURN RECEIPT REQUESTED

Randy Meabon, Regulatory Coordinator Marathon Oil Company 1501 Stampede Avenue Cody, Wyoming 82414



Re: Underground Injection Control (UIC)
Notice of Violations:
Failure to Timely Demonstrate Mechanical
Integrity (9 wells); Inaccurate Gauge; and
Failure to Monitor Temporarily Abandoned Well
Steamboat Butte and Circle Ridge Oilfields
Fremont County, WY

Dear Mr. Meabon:

On October 19, 2010, EPA representatives conducted a routine inspection of the Class II injection wells owned by Marathon Oil Company ("Marathon") in the steamboat butte and circle ridge oilfields. During the inspection, operator representatives stated to EPA inspectors that the well named "Brinkerhoff 4," currently temporarily abandoned and operating under rule authorization under EPA ID WY20000-02133, has not been monitored regularly as required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section 144.28(g)(2). Marathon's failure to regularly monitor the Brinkerhoff 4 well is a violation.

EPA inspectors were told that the Marathon pressure gauge on the well named "Tribal S-1," operating under EPA permit ID WY 20866-02130, which read 1250 pounds per square inch (psi), was used for monitoring, recording and reporting purposes. Two calibrated EPA gauges read the pressure to be 1325 psi indicating Marathon's gauge was reading approximately seventy-five (75) psi too low. Accurate and representative monitoring is required by Title 40 C.F.R. Section 144.51(j). Marathon's use of a gauge displaying incorrect pressure is a violation.

According to our files, Marathon failed to timely demonstrate mechanical integrity (MI) for nine (9) wells listed in a table enclosed with this notice. Pursuant to 40 C.F.R. Section 146.23(b)(3), Marathon is required on any active injection well to demonstrate MI at least every five years.

Pursuant to 40 C.F.R Section 144.28(c)(2)(iv), every two years of continuous temporary abandonment, Marathon is required to ensure that the well, if not properly plugged and abandoned, will not endanger underground sources of drinking water. A successful MIT is an acceptable non-endangerment demonstration. Failure to timely demonstrate mechanical integrity for these nine (9) wells is a violation.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action Marathon intends to take to address these violations and how Marathon intends to prevent them from occurring in the future. Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject Marathon to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,

Sandra A. Stavnes, Director UIC/FIFRA/OPA Technical Enforcement Programs Enclosure: Table listing the nine (9) wells operated by Marathon Oil Company that are overdue for a mechanical integrity (MI) demonstration.

E	PA ID Number	Well Name	Status	Previous MI Demonstration Date	Due Date for MI Demonstration	Most Recent MI Demonstration Date
V	VY20839-02129	Tribal E-26	Active	7/13/2005	7/13/2010	Ongoing violation
V	VY20825-04382	Tribal C-28	Active	7/13/2005	7/13/2010	Ongoing violation
V	VY20000-02167	Shoshone 65-12	Active	7/14/2005	7/14/2010	Ongoing violation
V	VY20000-02171	Shoshone 65-26	Active	7/14/2005	7/14/2010	Ongoing violation
V	VY20000-02178	Shoshone 65-40	Active	7/14/2005	7/14/2010	Ongoing violation
V	WY20000-02173	Shoshone 65-29	Temporarily Abandoned	8/22/2008	8/22/2010	Ongoing violation
V	WY20710-02172	Shoshone 65-28	Active	7/14/2005	7/14/2010	Ongoing violation
Ţ	WY20708-02176	Shoshone 65-70	Active	7/14/2005	7/14/2010	Ongoing violation
1	WY20000-02155	Shoshone 63-44	Temporarily Abandoned	8/21/2008	8/21/2010	Ongoing violation

## Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 10/14/2010

INSPECTOR(S): Lead	Roberts, Sarah		Date:	10/19/2010	
	Others: Breffle, Don				
OPERATOR (only if diffe	erent): Tucken	1 thicks			
REPRESENTATIVE(S):					
	PRE-INSPE	CCTION REVIEW	W		
Marathon Oil Co	mpany		Top -	BLUE II ON I	
Well Name: Well Type: Operating Status: Oil Field: Location:	Tribal EI-30 Tensleep Enhanced Recovery (2R) AC (ACTIVE) as of 12/31/2 Steamboat Butte SWNE S5 T3N R1W	002 IC	IS Entered	2	
Indian Country:  Last Inspection:  Last MIT:	X, Wind River 7/7/2009 Pass 7/13/2005	Allowable Inj Pressur Annulus Pressure Fro	ate <u>10</u> itials <u>18</u> om Last MIT: 10	330/	
OBSERVED VALUES:	Plugging Post-Closure	Witness MIT			
Tubing Gauge:		220 /L: psig	Gauge Own	er: EPA Operator	
Annulus Gauge:		psig	Gauge Own	er: EPA Operator	
Bradenhead Gauge:	Yes Pressure:	psig psig	Gauge Own	er: EPA Operator	
Pump Gauge:	Yes Pressure: No Gauge Range:	psig psig	Gauge Owne	er: EPA Operator	
Operating Status: (Select One)			lugged and Aban nder Constructio		
GREEN BLUE	CBI e page 2 for photos, c	comments, and sit	U2 Entere e conditions Date Initial	i 10/26/10	

PHOTOGRAPHS:		ist of photos take					
-J	_						
Comments and site c	onditions o	bserved durin	ng inspectio	n:			
214							
GPS: GPS File ID:							
Signature of EPA Inspector	or(s):	LR	6	Do Tal			
Data	Entry		Compliance St	aff	Hard Cop	y Filing	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 10/19/10 Hour: 8:30a	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).					
Firm Name:	Marathon O.1 Company					
Firm Address:	27 Maverick Springs Road					

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

### SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Dun Breffle

Inspector's Signature

Original - Regional Office Copy Yellow Copy - Operator Copy

### Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 6/22/2009

NSPECTOR(S): Lead: Wiser, Nathan						7/7/2009	di
Others: Bowling, Linda Sumaiku, Yohan					Time: _	6:24	and p
OPERATOR (only if diff	erent): T	ucker Itick	S				
REPRESENTATIVE(S):	Lokil	o St. Clair	, Stanford	d ware	2		
		PRE-INSP	ECTION R	EVIEW	7		
Marathon Oil Co	ompany						- 1
Well Name: Well Type: Operating Status. Oil Field:	Enhanced	30 Tensleep Recovery (2R) IVE) as of 12/31/ t Butte	2002	TAB	REEN BLUE	CBI	
Location: Indian Country:	SWNE S5	T3N R1W River					
Last Inspection: Last MIT:	10/5/2006 Pass 7/13/		Allowable In		183 n Last MIT: 100	00 / 00	
Select One)  DBSERVED VALUES:	Pluggin Post-Cl		Witness				
Tubing Gauge:	Yes No	Pressure: <u>U</u> Gauge Range:	: 1040/L: 0-2000	psig psig	Gauge Owner	EPA Opera	tor
Annulus Gauge:	Yes No	Pressure: Gauge Range:	0-2000	psig psig	Gauge Owner	EPA Opera	tor
Bradenhead Gauge:	Yes No	Pressure: Gauge Range:		psig psig	Gauge Owner	EPA Opera	tor
	Yes	Pressure:		psig	Gauge Owner	-	
Pump Gauge:	₽ No	Gauge Range:		psig		Opera	tor

See page 2 for photos, comments, and site conditions ntered

JZ EME	eo
Date_A	e0 ugust 19,2009
nitial	

Page 1 of 2

Date July 28, 2009
Initials

PHOTOGRAPHS:	Yes No	List of photos taken:		
	7 110			
Comments and site of Bled off pre	condition essure	s observed during inspe	ection:	
GPS: GPS File ID: _	ы			
3				
Signature of EPA Inspect	or(s):	John M.a.	Linda M. Bouling	Sumalu





### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region VIII, 1595 Wynkoop Street Denver, Colorado 80202-1129

Date: 7/7/'09

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:15am

Firm Name:

MARATHON OIL COMPANY

Firm Address:

1501 Stampede Avenue

Cody, WY 82414

#### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Nathan Wiser, Linda Bowling, Yohan Sumaiku

Inspector's Name & Title (Print)

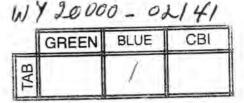
Inspector's Signature

Original - Regional Office Copy Yellow Copy - Operator Copy

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 8**

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

January 16, 2009



Randy Meabon Marathon Oil Company 1501 Stampede Avenue P.O. Box 2690 Cody, WY 82414

Ref: 8ENF-UFO

Re: UNDERGROUND INJECTION CONTROL (UIC)

> Courtesy Reminder to Submit Annual Injection Well Monitoring Report and Fluid Analysis

Dear Mr. Meabon:

The purpose of this letter is to remind all Class II injection well operators about standard annual reporting requirements. This is a courtesy reminder to all Class II injection well operators to comply with certain annual reporting requirements. Specifically, I am reminding you to submit your annual monitoring reports, and as applicable, a chemical analysis of injected fluids. Enclosed is a blank annual monitoring report form and accompanying instructions. This form is also on-line at the EPA UIC program's website http://www.epa.gov/safewater/uic/index.html. If required by permit, please remember to submit a chemical analysis representative of fluid injected during 2008 unless no injection occurred during 2008. Submissions to EPA of annual monitoring reports and chemical analyses must be postmarked by February 15, 2009.

As in years past, this reminder is being sent to operators under the jurisdiction of the U.S. EPA Region 8 program as a courtesy. Given possible reduction in resources this courtesy letter may not be possible in the future, but that would not affect your duty to comply with these requirements.

Failure to comply with a UIC permit or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions about matters raised in this letter, please feel free to contact Nathan Wiser of my staff at (303) 312-6211. The fax number for the UIC Program's Technical Enforcement Program is (303) 312-6953.

Sincerely,

Director

Technical Enforcement Program

- Enclosures: 1. Blank Form 7520-11 (Annual Disposal/Injection Well Monitoring Report)
  - 2. Instructions for Class II well reporting
  - 3. Print out of injection wells from EPA's UIC database for Class II operators

### **ENCLOSURE** - Instructions for Annual Reporting

Please find a recent print-out from EPA's Region 8 UIC database displaying the Class II injection wells to which these reporting requirements apply. There may be additional reporting requirements established in each UIC Class II permit. While meant to be helpful and complete, this print-out may not reflect each and every Class II injection well for each operator.

## Instructions for Completing EPA Form 7520-11 (Annual Disposal/Injection Well Monitoring Report)

- 1. Complete a separate form for each well, and write the EPA permit/ID number on each.
- A form must be submitted for any injection well with an unplugged status at any point during the reporting period (calendar year 2008), including those wells which may have been transferred to or from another company at some point during the reporting period. This specifically includes injection wells that have not been used for injection but once were.
- 3. When completing this form, insert only actual numeric values into the columns, rather than leaving them blank. Do not use marks like "-" or "\*" to substitute for the value zero. A well that has been temporarily abandoned must still be periodically observed and pressure and rate values recorded.
- 4. All monthly values must be filled in and must be actual observed values. Further, please report the maximum observed wellhead injection pressure, not just the average injection pressure. for each month in the reporting period. Most injection well permits also require the submission of observed of wellhead annulus pressures.
- Each completed form must be signed and dated.
- 6. The due date for annual monitoring reports is February 15, 2009.

#### Instructions for Submitting a Chemical Analysis (there is no EPA form for this)

- 1. If required by permit and if there was fluid injected during 2008, a chemical analysis representative of fluid injected during 2008 must be submitted. Permit conditions typically require an analysis for at least pH, total dissolved solids, specific conductivity and specific gravity. Check your UIC permit(s) for further information. Include the EPA permit/ID number(s) with each applicable analysis.
- The due date for chemical analysis reports is February 15, 2009.

Send all reporting to the following address:

U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, Colorado 80202

Attention: Nathan Wiser (Mail Code: 8ENF-UFO)



# UNDERGROUND INJECTION CONTROL - DEEP WELL PROGRAM WELL INVENTORY REPORT (Sorted by Operator)

File No:	Well Name / Well Type / Oper Status:	N/E/C:	Oil Field Name:	S/T/R:	State:	Tribe Name:
WY20000-02141	Tribal EI-30 Tensleep Enhanced Recovery (2R) AC (Active)	Existing	Steamboat Butte	SWNE S5 T3N R1W	WY	Wind River
WY20000-02143	Tribal CI-30X Tensleep Enhanced Recovery (2R) AC (Active)	Existing	Steamboat Butte	SENW S32 T4N R1W	WY	Wind River
WY20000-02145	Tribal CI-1 Nugget Enhanced Recovery (2R) AC (Active)	Existing	Steamboat Butte	SWSW S32 T4N R1W	WY	Wind River
WY20000-02146	Tribal CI-27 Tensleep Enhanced Recovery (2R) AC (Active)	Existing	Steamboat Butte	SWSE S32 T4N R1W	WY	Wind River
WY20000-02149	Shoshone 63-24 Amsden Enhanced Recovery (2R) AC (Active)	Existing	Circle Ridge	SWNW S6 T6N R2W	WY	Wind River
WY20000-02150	Shoshone 63-27 Amsden Enhanced Recovery (2R) AC (Active)	Existing	Circle Ridge	SWNW S6 T6N R2W	WY	Wind River
WY20000-02167	Shoshone 65-12 Tensleep Enhanced Recovery (2R) AC (Active)	Existing	Circle Ridge	SESE S36 T7N R3W	WY	Wind River
WY20000-02169	Shoshone 65-20 Enhanced Recovery (2R) AC (Active)	Existing	Circle Ridge	SESE \$36 T7N R3W	WY	Wind River

### Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466 This form was printed on 9/29/2006 PECTOR(S): Lead: Phillips, Kenneth Date: 10/5/2006 Others: Becker, Robert LOKILO ST. Time: (0:27 am/pm OPERATOR (only if different): REPRESENTATIVE(S): PRE-INSPECTION REVIEW Marathon Oil Company Entered Well Name: Tribal EI-30 Tensleep Well Type: Enhanced Recovery (2R) AC (ACTIVE) as of 12/31/2002 Operating Status: Steamboat Butte Oil Field: Location: Indian Country: X, Wind River Allowable Inj Pressure: 1830 / Last Inspection: 10/25/2005 Annulus Pressure From Last MIT: 1000 Last MIT: Pass 7/13/2005 BLACK = POSSIBLE VIOLATION Initials INSPECTION TYPE: Response to Complaint Construction / Workover Other (Select One) Plugging Routine Post-Closure Witness MIT **OBSERVED VALUES:** EPA Gauge Owner: / Yes Tubing Gauge: Pressure: psig Operator No Gauge Range: DIG TAG psig Yes EPA Gauge Owner: Annulus Gauge: Pressure: psig ∠ Operator No Gauge Range: psig EPA Bradenhead Gauge: Yes Pressure: psig Gauge Owner: Operator LNO Gauge Range: psig EPA Pump Gauge: LYes Pressure: psig Gauge Owner: No Gauge Range: psig Operator Plugged and Abandoned Operating Status: Active Not Injecting (Select One) Production **Under Construction** Being Reworked

See page 2 for photos, comments, and site conditions.

omments and site condit	ons observed during inspection:	
And the state of the state of the		
PS: GPS File ID:		
		(3)

Compliance Staff

Hard Copy Filing

Data Entry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date:	0	51	36
	_	_	

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:0041

MARATHON PRODUCTION CO.

Firm Address:

Firm Name:

P. D. Box 130

CINDRAR, WY 82516

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

### SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Except as provided in Paragraph (2), Section 1445(b)(1): the Administrator, or representatives of the Administrator him, upon presenting appropriate duly designated by credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Key Humps/Bob Becker Inspector's Name & Title (Print)

Inspector's Signature

4

Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 10/21/2005

	INSPECTOR(S): Lead: Phillips, Kenneth Others: Bowling, Linda /Kilo St. Clair				
Land of the second seco	7	St. Clase	Time: $2$	am /pm	
OPERATOR (only if diff	ferent):				
REPRESENTATIVE(S):	J.D. Barquin				
	PRE-INSPECT	ON REVIEW			
Marathon Oil C	ompany				
Well Name: Well Type: Operating Status Oil Field: Location:	Tribal EI-30 Tensleep Enhanced Recovery (2R)  AC (ACTIVE) as of 12/31/2002 Steamboat Butte  X, Wind River	U2 Entered Date	lo5		
Indian Country: Last Inspection: Last MIT:	10/19/2004 All	owable Inj Pressure: nulus Pressure From Last	1830 / t MIT: 1000		
BLACK = POSSIBLE	VIOLATION OF THE PROPERTY OF T	ATIS-810 (A)			
INSPECTION TYPE: (Select One)	Construction / Workover Plugging Post-Closure	Witness MIT Da	Other IS Entered ate itials	11 110/05	
OBSERVED VALUES: Tubing Gauge:	Yes Pressure: U: /3/	A)	auge Owner:	EPA Operator	
Annulus Gauge:	Yes Pressure: O		auge Owner:	EPA Operator	
Bradenhead Gauge:	Yes Pressure: No Gauge Range:	psig Ga	auge Owner:	EPA Operator	
Pump Gauge:	Yes Pressure: No Gauge Range:	psig Ga psig	auge Owner:	EPA Operator	
Operating Status: (Select One)	Active Not Inject		and Abandoned		

See page 2 for photos, comments, and site conditions.

PHOTOGRAPHS:	Yes No				
		s observed during inspec	tion:		
		- Janah S			
GPS: GPS File ID: _		AMINA			
		41			
		c			
			*		
Signature of EPA Inspect	tor(s):	En DO	Lata M. Bon	\$_	

Compliance Staff

Hard Copy Filing

Data Entry

### NOTICE OF INSPECT \



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date:	lobsins	

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 11:00

Firm Name: HARATTON PRODUCTION CO. INC.

Firm Address: Ro. Box 130

KINNEAR WY 82516

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

### SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator him, upon presenting appropriate duly designated by credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

nspectors Signature



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

January 7, 2005

Ref: 8ENF-UFO

Randy Meabon Marathon Oil Company P.O. Box 2690 Cody, WY 82414

Re: UNDERGROUND INJECTION CONTROL (UIC)

Courtesy Reminder to File Annual Injection Well

Monitoring Report and Fluid Analysis

Dear Mr. Meabon:

This courtesy reminder letter is sent to you reminding you to comply with certain UIC regulatory and permitting requirements. Specifically, I am reminding you to submit your annual monitoring reports (blank copy enclosed). This form is also available on-line at <a href="http://www.epa.gov/safewater/uic/pdfs/7520-11.pdf">http://www.epa.gov/safewater/uic/pdfs/7520-11.pdf</a>. Also, if required in your permit, please remember to submit a chemical analysis representative of injection fluid collected this year. The due date for submission is **February 15, 2005**.

As in years past, this letter is being sent to every operator of a UIC Class II injection well under the jurisdiction of the U.S. EPA Region 8 program. Given possible reduction in resources in the future, this courtesy reminder letter may not be possible, but would not affect your duty to comply with these requirements.

Also enclosed is a recent print out from our database displaying the Marathon Oil Company injection wells to which the reporting requirements in this letter generally apply. There may be additional reporting requirements established in an existing UIC permit. If so, then you must also follow those UIC permit requirements.

IMPORTANT: Follow the instructions in this letter when completing the enclosed EPA Annual Disposal/Injection Well Monitoring Report (EPA Form 7520-11).

Complete a separate form for each well.

- A form must be submitted for any injection well with an unplugged status at any point during the reporting period (calendar year 2004), including those wells which may have been transferred to or from another company at some point during the reporting period.
- 3. When completing this form, insert only actual numeric values into the columns, rather than leaving them blank. Do not use marks like "-" or "\*" to substitute for the value zero. A well that has been temporarily abandoned must still be periodically observed and pressure and rate values recorded.
- 4. All monthly values must be filled in and must be actual observed values. Further, please report the maximum observed injection pressure, not just the average injection pressure, for each month in the reporting period.
- 5. Each completed form must be signed and dated.
- Please send each report to the following address:

U.S. Environmental Protection Agency, Region 8 999 18th Street, Suite 300 Denver, Colorado 80202 Attention: Nathan Wiser (8ENF-UFO)

If you have any questions about matters raised in this letter, please feel free to contact Nathan Wiser of my staff at (303) 312-6211.

Sincerely,

Elisabeth Brang

Elisabeth Evans
Director
Technical Enforcement Program

Enclosures:

1. Blank Form 7520-11 (Annual Disposal/Injection Well Monitoring Report)

2. Print out of injection wells from EPA's UIC database

### Inspection Report For Well: WY20000 - 02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 10/15/2004

	22 22 23 24 24			-	/19/2004	Com Lana
Othe	rs: Craver, Al			Time:	1:25	am/pm
PERATOR (only if dif	erent): LYNETTE O'	NEAL EVERT	MCGILL			
EPRESENTATIVE(S)	CHUCK HEN	rai				
	PRE-INS	SPECTION RI	EVIEW			
Marathon Oil C	omnany			ICIS Ente		
Well Name:	Tribal EI-30 Tensleep			Date_/	0-28	5-04
Well Type:	Enhanced Recovery (2F	(3)				2
Operating Status				Initials_	10	
Oil Field:	Steamboat Butte					
Location:	XXXXXX F38 R1W					
Indian Country:	X, Wind River					
Last Inspection:	11/18/2003	Allowable In	j Pressure:	1830	1	
Last MIT:	Pass 3/23/2001	Annulus Pre	ssure From Lo	ast MIT: 1000		11
BLACK = POSSIBLE	Construction / Works	over Respon	se to Complair	nt ToOthe	er	
BLACK = POSSIBLE NSPECTION TYPE: elect One)				Date Initia	itered	27.09
SPECTION TYPE:	Construction / Works Plugging Post-Closure	over Respon  Koutine Witness	s MIT	Date . Initia	10-	27.09
NSPECTION TYPE:	Construction / Works Plugging Post-Closure  Yes Pressure:	over Respon	s MIT	Date Initia	ritered / O - l EPA Opera	27.05
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SPECTION TYPE: elect One)  BSERVED VALUES Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:	Construction / Works Plugging Post-Closure  Yes Pressure: No Gauge Range Yes Pressure: No Gauge Range Yes Pressure: No Gauge Range Yes Pressure: Gauge Range And Gauge Range	U: 1620/L: e: 6-3000	psig psig psig psig psig psig psig psig	Date Initial Gauge Owner: Gauge Owner:	EPA Opera  EPA Opera  EPA EPA	tor
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SPECTION TYPE: elect One)  BSERVED VALUES Tubing Gauge:  Annulus Gauge:  Bradenhead Gauge:	Construction / Works Plugging Post-Closure  Yes Pressure: No Gauge Rang Yes Pressure: No Gauge Rang Yes Pressure: Gauge Rang Yes Pressure:	U: 1620/L: e:	psig psig psig psig psig psig psig psig	Date Initial Gauge Owner: Gauge Owner:	EPA Opera EPA Opera EPA Opera Opera	tor ator

See page 2 for photos, comments, and site conditions.

PHOTOGR	RAPHS:	Yes No	List of photos taken: _			
			s observed during in			
GPS: GPS						
			n A	) DI	2	
Signature of E		tor(s):	Compl	liance Staff	Hard Copy F	iling



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date:	0	19	104
	_	_	-

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 10200

Firm Name: MARATHON OR CO.

Firm Address: P.o. Box 130

KINDIAR WY 82516

#### REASON FOR INSPECTION:

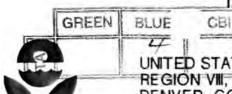
For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Inspector's Signature



Walti

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: ///8/03

Notice of inspection is hereby given according to Section 1445(b) of the Safe

Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:30

Firm Name: MARATHON OIL COMPANY

Firm Address: 27 HINACK SPRINGS RD.

PO. Tex 130, KINNEAR WY 82516

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

EL PHILLAS / AL CRAVER

Inspector's Name & Title (Print)

Inspector's Signature

GREEN	BLUE C	Bl U.S. Environme	ental Protection Ag				
	1	999 18th Street, Suite	300, Denver, CO	80202-2466			
TAB	4	This form was	printed on 11/14/20	003			
PECTOR(S):	ECTOR(S): Lead: Phillips, Kenneth				Date: 11/18/2003		
	Others: Cray	er, Al TRAUS SHAW	ES ACARE/LON	KO SINCLARD	Time: 1	:45 am/	
RATOR (only i	f different):_					Y	
RESENTATIV	E(S): 1.T	BRIGGS					
		PRE-INSPE	CTION RE	EVIEW	-		
Marathon C	Oil Company			Entered	1		
Well Name		L EI-30 Tensleep	02	In la la	alma		
Well Type:		ed Recovery (2R)	Da	ite 1214	103		
		E (AC) as of 12/31/20	02 In	itial Z	DI		
Oil Field:	21.000	oat Butte					
Location:	A CONTRACTOR OF THE PARTY OF TH	SELLIN KIM					
Indian Cou	intry: X, Win	d River					
Last Inspec	ction: 5/21/20	003	Allowable Inj	Pressure:	1830	/	
Last MIT:	Pass 3/	23/2001	Annulus Press	sure From Las	MIT: 1000		
BLACK = POS	SSIBLE VIOLATIO	N GREY-S	ATA MISSING	ICIS E	ntered		
PECTION TY	PE: Cons	struction / Workover	Response	Date _ to Complaint	12.18 /		
et One)	Plug	Commence of the commence of th	Koutine	Initial	s _ >	y	
		-Closure	Witness				
SERVED VAL	UES:						
ubing Gauge:	Yes	Pressure: <u>U:</u>	35a:	_psig Ga	auge Owner:	Z EPA	
	No	Gauge Range: O	-3000	_psig		Operator	
nnulus Gauge:	Yes	Pressure:	0	_psig Ga	uge Owner:	Z-EPA	
∠ No		Gauge Range: C	-3000	psig		Operator	
radenhead Gauge:	Yes	Pressure:		psig Ga	auge Owner:	EPA	
radennead Gauge:	V No	Gauge Range:		_psig G	iuge Owner.	Operator	
		12910-1111-11					
ump Gauge:	Yes	Pressure:			auge Owner:	EPA	
	No	Gauge Range:		_psig		Operator	
perating Status:	Active	Not	t Injecting	Plugged	and Abandon	ned	
Select One)		Being Reworked Production Under Construction					

See page 2 for photos, comments, and site conditions.

## Inspection Report For Well: WY20000 - 02141 (PAGE 2)

PHOTOGRAPHS:	Yes No	List of photos taken:			
Comments and site	conditions	s observed during inspe	ection:		
GPS: GPS File ID: _					
Signature of EPA Inspec	tor(s):	Compliance	Alfa.	Hard Copy Filin	

Wy 2141



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 5/20/03

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seg.).

Hour: 7:55 am

Firm Name: Marathon

Steambout Butte Field

Firm Address: 1501 Stampade

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

Avenue

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Ken Phillips ,SEG

athan M. Wiser Environ. Sugatist

Inspector's Name & Title (Print)

Al Craver, SEE

Inspector's Signature

### Inspection Report For Well: WY20000-02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 5/16/2003

INSPECTOR(S): Lead: Nathan Wiser

Date: 5/21/2003

Others: Kenneth Phillips, Nathan Wiser CATLEWEES,

Time: 9:50

am/ pm

UERLON TIMBONA, CHESTER PINGREE

OPERATOR (only if different):

REPRESENTATIVE(S): CHUCK HENRY

PRE-INSPECTION REVIEW

U2 Entered IICIS 6/9/03

Marathon Oil Company (MAR04), Park, WY

Date 6/4/03

Well Name: Well Type:

TRIBAL EI-30 Tensleep Enhanced Recovery (2R)

Initial KAP

Operating Status:

Oil Field:

Steamboat Butte

Location:

Indian Country:

Y, Wind River

Last Inspection:

[INSP DATE]

Allowable Inj Pressure:

1830 /

Last MIT:

[MIT RESULT/DATE]

Annulus Pressure From Last MIT [ANNULUS PRESS

BLACK = POSSIBLE VIOLATION

INSPECTION TYPE:

Construction / Workover

Response to Complaint

Other

(Select One)

Plugging

Post-Closure

Witness MIT

Routine

**OBSERVED VALUES:** 

Tubing Gauge:

Yes No

U: 1530/L:

psig

Gauge Owner:

EPA Operator

Annulus Gauge:

Yes

Pressure:

Gauge Range: 0 - 2000

psig

psig

Gauge Owner:

(EPA)

No

Gauge Range: 0-200

psig

Operator

Bradenhead Gauge:

Yes No

Pressure:

Gauge Range:

Gauge Range:

psig psig Gauge Owner:

**EPA** Operator

Pump Gauge:

Yes

Pressure:

psig

Gauge Owner:

EPA

No

psig

Operator

Operating Status:

Not Injecting

Plugged and Abandoned

(Select One)

Active

Being Reworked

Production

Under Construction

See page 2 for photos, comments, site conditions, and CATS reporting.

### Inspection Report For Well: WY20000-02141 (PAGE 2)

PHOTOGRAPHS:

Yes No.

List of photos taken:

### Comments and site conditions observed during inspection:

GPS: GPS File ID:

### CATS REPORTING:

Was a multi-media checklist used on this inspection? (MMI3) Yes No Were other EPA programs involved in this inspection? Yes No If YES, was this a "coordinated" multi-media inspection? (MMII Yes No was this a "consolidated" multi-media inspection? (MMI2) Yes No what programs participated?

Was this a State or Tribal "capacity building" activity?

Yes No

If YES, who was it provided to?

If YES, what was provided?

Training

Regulatory determination (oral or written)

Assisted inspection

Response to request for assistance

Other Participants (select as many as applicable):

Tribe

Federal Agency

State

Local

Jaha M. Wi

Other (contractor)

Was a Violation found?

Yes No

If NO, close pipeline?

Yes

No

If YES, what do you envision your next activity or activities might be?

If YES, when do you envision the above activity occurring?

Projected inspection report completion date:

Actual inspection report completion date:

Signature of EPA Inspector(s):

Compliance Staff

Hard Copy Filing

### NOTICE OF INSPECTI



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 5/14/02

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 10,000 AN

Firm Name: MARKTHON OR

Firm Address: 27 HAVAICK SPRINGS RD.

KINNEAR WYO 82516

### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

KEN PHILLIPS

Inspector's Name & Title (Print)

nspector's Signature

### Inspection Report For Well: WY20000-02141

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 5/2/02

INSPECTOR(S): Lea	d: KEN PHILLIPS	Date: 5/14/2002
Oth	ers: AL CRAVER/LYNN HARRISON	Time: 11525 @m/pm
OPERATOR (only if dif	Ferent): BAODIE DICHOLD / GREG ALLTON	
REPRESENTATIVE(S)		
	PRE-INSPECTION REVIEW	
Marathon Oil C	ompany (MAR04), UNKNOWN, WY	No construction
Well Name:	TRIBAL EI-30 Tensleep	
Well Type:	Enhanced Recovery (2R)	
Operating Statu		
Oil Field:	Steamboat Butte	
Location:	XXXX SS T3N RIW	
Indian Country:		ervation
Compliance Sta	ff: Wiser, Nathan	
Last Inspection:	7/11/00 Allowable Inj Pressure:	UNKNOWN
Last MIT:	Pass 3/23/01 Annulus Pressure From La	ast MIT: UNKNOWN
INSPECTION TYPE: (Select One)	Compliance PA Construction Response to emergency or complement Routine	Witness MIT Workover Other
OBSERVED VALUES		
Tubing Gauge:	Ves Pressure: U:1492/L: psig  No Gauge Range: 0-3000 psig	Gauge Owner: EPA Operator
Annulus Gauge:	Yes Pressure:   No Gauge Range:     O   O   psig   O	Gauge Owner:
Bradenhead Gauge:	Yes Pressure:psig O	Gauge Owner: EPA Operator
Pump Gauge:	Yes Pressure:psig O No Gauge Range:psig	Gauge Owner: EPA Operator
Operating Status: (Select One)		d and Abandoned Construction

See page 2 for photos, comments, site conditions, and CATS reporting.

## Inspection Report For Well: WY20000-02141 (PAGE 2)

PHOTOGRAPHS: Yes				
Comments and site conditions observed during inspection:				
-				
GPS: GPS File ID: 105141	TC			
CATS REPORTING:				
Was a multi-media checklist used	on this inspection? (MMI3)	Yes	¿ No	
Were other EPA programs involv	ed in this inspection?	Yes	4 No	
If YES, was this a "coordinat	ed" multi-media inspection? (MMI1)	Yes	LNo	
was this a "consolidat	red" multi-media inspection? (MMI2)	Yes	LNO	
what programs partic	ipated?			
Was this a State or Tribal "capaci	ty building" activity?	Yes	No	
If YES, who was it provided	to? WIND AWER /	PES.		
If YES, what was provided?	☐ Training ☐ R		rmination (oral or wr uest for assistance	itten)
Other Participants (select as many Tribe Federal A		Oth	er (contractor)	
Was a Violation found?		Yes	ANO.	
If NO, close pipeline?		Yes	No	
If YES, what do you envision	n your next activity or activities might	be?		
If YES, when do you envisio	n the above activity occurring?			
Projected inspection report co	ompletion date:			
Actual inspection report com	pletion date:			
Signature of EPA Inspector(s):	2 Million C	Mac	m	
Data Entry	Compliance Staff		Hard Copy Filing	



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

Ref: 8ENF-T

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Carl Roberts Associate Engineer Marathon Oil Company 1501 Stampede Avenue Cody, Wyoming 82414-4721

Re: UNDERGROUND INJECTION CONTROL (UIC)
Permission To Resume Injection
Tribal E-30 EPA ID# WY2000-02141
Steamboat Butte Field

Fremont County, Wyoming

Dear Mr. Roberts:

On March 29, 2001, EPA received information from Marathon on the above referenced well regarding the additional Tensleep formation perforations, along with information on the follow up mechanical integrity test (MIT) conducted on March 23, 2001. A Marathon letter of January 12, 2001 outlined the need for these additional perforations and EPA approved this request. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) Section 144.28(f)(3), permission to resume injection is granted.

Under continuous service, the next MIT will be due on or before March 22, 2006. If the well is to be temporarily abandoned (TA'd), EPA should be notified. If the well is abandoned for more than two (2) years, it shall be plugged and abandoned in accordance with UIC regulations unless sufficient reasons are provided by Marathon to extend the TA status.

Failure to comply with UIC regulations found at 40 CFR, Parts 144 and 146 are violations of the Safe Drinking Water Act, 42 U.S.C.300h and subject to enforcement by EPA.

SENF-T NW 3 se ol

( 3/30/0)



If you have any questions concerning this letter, you may contact Al Craver at (303) 312-7821. Also, please direct all correspondence to the attention of Al Craver at Mail Code 8ENF-T.

Sincerely,

Connally E. Mears, Director Technical Enforcement Program

cc: Don Aragon, Director Environmental Quality Wind River Reservation

> Richard Burnett Shoshome Oil and Gas Commission

ENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.	Received by (Please Print Clearly)  B. Date of Delivery  Signature  Agent  Addressee  D. Is delivery address different from item 1?  Yes
Article Addressed to:  APR 2 2001  Mr. Carl Roberts, Associate Engineer  Marathon Oil Company 1501 Stampede Avenue	If YES, enter delivery address below: ☐ No
Cody, Wyoming 82414-4721	3. Service Type  Certified Mail

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Postage	\$	
Certified Fee		
Return Receipt Fee		Postmark
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Marathon O		
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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18<sup>TH</sup> STREET - SUITE 300 DENVER, CO 80202-2466 http://www.epa.gov/region08

MAR 3 0 2001

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Sincerely,

Comelly E. Mass

Connally E. Mears, Director Technical Enforcement Program

cc: Don Aragon, Director Environmental Quality Wind River Reservation

> Richard Burnett Shoshome Oil and Gas Commission

# Fax

FAX'D
3/30/01

Name: Carl Roberts

Organization: Marathon Oil Company

Fax: 307-527-2139

Phone:

From: Al Craver

Date: March, 30 2001

Subject: Notice of Noncompliance

Pages: 3



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

JAN 23 2001

Ref: 8ENF-T

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Re: UNDERGROUND INJECTION CONTROL (UIC)
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If you have any questions or comments concerning this letter, you may contact Al Craver at (303) 312-7821. Also, please direct all correspondence to the attention of Al Craver at Mail Code 8ENF-T.

Sincerely,

Connally E. Mears

Technical Enforcement Program

Corally E. Wears

Enclosures: MIT Form and Well Rework Form (7520-12)

cc: Don Aragon, Director Environmental Quality Wind River Indian Reservation

> Richard Burnett Shoshone Oil and Gas Commission

Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

COUNTY  LOCATION DESCR 4 OF 1/4 (ELL IN TWO DIRECT  ft. from (N/S  ft. from (E/W)  ELL ACTIVITY  Disposal Inced Recovery Inced	CTIONS FROM NEARES  Line of quarter Line of quarter sect Total Depth Be  Total Depth Af  Date Rework (  Date Re	CTION TOWN ST LINES OF QUARTER  r section  tion lefore Rework  Commenced  Completed  RK  A  Tree  Is and Changes Only)	PERMIT NUMBER  NSHIP RANGE R SECTION AND DRILLING UNIT  TYPE OF PERMIT Individual Area Number of Wells  Well Number  Acid or Fracture reatment Record
LOCATION DESCR 4 OF 1/4 FELL IN TWO DIRECT  ft. from (E/W) ELL ACTIVITY Disposal need Recovery carbon Storage  Name  ING RECORD  Perf From	CTIONS FROM NEARES  Line of quarter Line of quarter sect Total Depth Be  Total Depth Af  Date Rework (  Date Rework (  Date Rework (  CONTROL   CO	ST LINES OF QUARTER  r section  tion  lefore Rework  Commenced  Completed  RK  A  Tree  As and Changes Only)	TYPE OF PERMIT Individual Area Number of Wells Well Number
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(Ref. 40 CFR			
5	ave personall achments and ne information significant pe	achments and that, based or ne information, I believe that	ave personally examined and am familiar with achments and that, based on my inquiry of t ne information, I believe that the information significant penalties for submitting false inform



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18<sup>TH</sup> STREET - SUITE 300 DENVER, CO 80202-2466 http://www.epa.gov/region08

Ref: 8ENF-T

CONCILLACTION

## CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Carl Roberts Assoc. Engineer Marathon Oil Company 1501 Stampede Avenue Cody, Wyoming 82414-4721

Re: UNDERGROUND INJECTION CONTROL (UIC)
Proposed Workover - Additional Perforations
Tribal E-30 (EPA #WY2000-02141) and
Tribal C-30X (EPA #WY2000-02143)
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Fremont County, Wyoming

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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
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Sincerely,

Connally E. Mears
Technical Enforcement Program

Enclosures: MIT Form and Well Rework Form (7520-12)

cc: Don Aragon, Director Environmental Quality Wind River Indian Reservation

> Richard Burnett Shoshone Oil and Gas Commission

FUN			
	Postage Certified Fee	\$	
=	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Tot Mr. Carl	Roberts Assoc.	Postmark Here Engineer
3 7	Reci Maratho	n Oil Company ampede Avenue VY 82414-4721	iller)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  Article Addressed to: JAN 2 4 Z001  Mr. Carl Roberts Assoc. Engineer Marathon Oil Company	A. Received by (Please Print Clearly)  B. Date of Delivery  C. Signature  Addresses  D. Is delivery address different from item 1?  If YES, enter delivery address below:  A. Date of Delivery  Agent  D. Addresses  Addresses
1501 Stampede Avenue Cody, WY 82414-4721	3. Service Type Certified Mail
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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 8** 999 18TH STREET - SUITE 300 DENVER, CO 80202-2466

AUG 3 0 2000

Ref: 8ENF-T

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CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. C.R. Adams Marathon Oil Company 1501 Stampede Avenue Cody, WY 82414-4721

> RE: UNDERGROUND INJECTION CONTROL (UIC) Permission to Inject Tribal E-30 (EPA No.WY2000-02141) Steamboat Butte Field

Fremont County, WY

Dear Mr. Adams:

We received your letter of December 13, 1999 including the Mechanical Integrity Test (MIT) performed successfully at 1000 psi, for the Tribal E-30 (EPA No. WY2000-02141) in the Steamboat Butte Field.

The results of the MIT and the Well Rework Record (EPA Form 7520-12) were reviewed. The permission to begin water injection into this well was granted by e-mail on December 14, 1999. letter confirms the authorization in writing.

Under continuous service, the next MIT will be due on or before December 7, 2004. If the well is to be temporarily abandoned, EPA should be notified. If the well is abandoned for more than two (2) years, the well shall be plugged and abandoned in accordance with UIC regulations unless sufficient reasons are provided by Marathon Oil Company to extend the Temporarily Abandoned status.

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Connally E. Mears, Director Technical Enforcement Program

cc: Don Aragon, Director Environmental Quality Wind River Indian Reservation

> Richard Burnett Shoshone Oil & Gas Commission

Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that card to you. Attach this form to the front of the mailpiece, or on the back if spermit. Write *Return Receipt Requested* on the mailpiece below the art. The Return Receipt will show to whom the article was delivered delivered.	ace does not  1.  Addressee's Address icle number.  2.  Restricted Delivery
3. Article Addressed to:  MR CR ADAMS  MARATHON OIL CO  1501 STAMPEDE AVE  CODY WY 82414-4721	4a. Article Number 2. 152. 740 988  4b. Service Type Registered Certified Express Mail Insured Return Receipt for Merchandise COD  7. Date of Delivery
5. Received By: (Print Name) Robist F- Ko (  bell (n 6. Signature: (Addressee or Agent) X Korut E Laufeur	8. Addressee's Address (Only if requested and fee is paid)  102595-97-B-0179 Domestic Return Receipt

Z 152 740 988

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

MR CR ADAMS

MARATHON OIL CO

1501 STAMPEDE AVE

CODY WY 82414-4721

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom, Date, & Addresse's Address

TOTAL Postage & Fees

Postmark or Date UEC Permission to Enject Total Feed

Timed Total Feed

Return Receipt Showing to Whom, Date, & Addresse's Address

TOTAL Postage & Fees

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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
AUG 3 0 2000

Ref: 8ENF-T

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. C.R. Adams Marathon Oil Company 1501 Stampede Avenue Cody, WY 82414-4721 CONCURRENCE/READING FILE CERTIFIED MAIL TRACKING #

2152 740 988

RE: UNDERGROUND INJECTION CONTROL (UIC)
Permission to Inject
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Steamboat Butte Field
Fremont County, WY

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Sincerely,

Connally E. Mears, Director

Technical Enforcement Program

cc: Don Aragon, Director Environmental Quality Wind River Indian Reservation

7 A.

Richard Burnett Shoshone Oil & Gas Commission

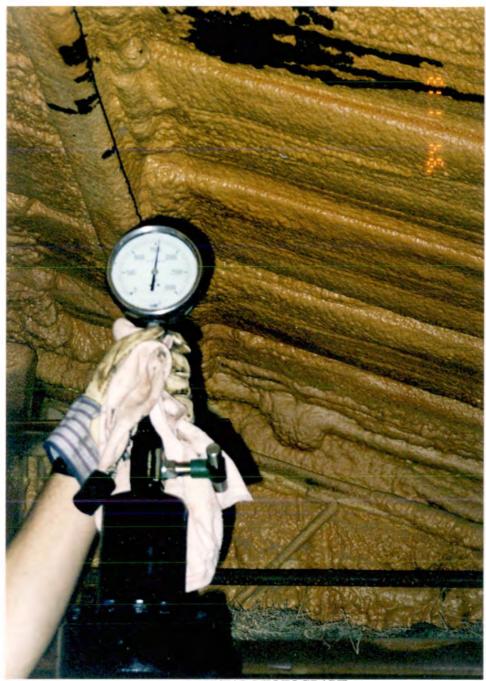
Inspection Report for Well WY2000-02141 UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION This form was printed on 06/19/2000.

OPERATOR Marathon R	Date 07/11/00 Time 1:20 am/pm Charles Adam Churk Henry REPRESENTATIVE Jon Salmonson
Marathon Oil Company, Cody, WY EI-30 STEAMBOAT BUTTE	Op ID MAR04 2R AC as of 03/01/1997 05 03N 01W Sω/NE
Indian? Yes, Wind River	Compliance staff: CARSON
	CCTION REVIEW 99 Last MIT: Passed 12/08/1999
[ ]Workover [ ]Enforcement [ ]Resource   Pressure at wellhead   1560   Inj Pressure at pump	[ ]PA [ ]Compliance [ ]Construction esponse to emergency or complaint [ ]Other  EPA  psig Gauge range O - 3006 psig  psig Gauge range psig  psig Gauge range psig
Pressure Gauge Present [ ]Yes [	
Injection Rate 1 855 BWF Flow Meter Present [ Yes [ ]No Meter Type How has MC-II	Cumulative Volume 3/2/7  Located at [ WELL [ ] PUMP
	Resettable [ ]Rate Indicator [ ]Other
Operating Status [ Active [ ]TA	[ ]PA [ ]Shut in [ ]Under Construction
PHOTOGRAPHS? [ Myes [ ] No	How the negatives are numbered:

See back of page for comments, site conditions, and compliance followup.

## **UIC** Inspection

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nature of EPA Inspector(s)	M. Wie	/_
nature of EPA Inspector(s)	M. Wie	
nature of EPA Inspector(s)	M. Wie	
nature of EPA Inspector(s)	M. Wie	
	M. Wie	
OFFICE USE ONLY - COMPLIANCE FOLLOWUP	M. Luic Yes	[] N
		[ ] N
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits	Yes	
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site	Yes Yes	
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Transfer of ownership? [] Yes [] No OLD	Yes Yes NEW	и [ ]



OFFICIAL PHOTOGRAPH REGION VIII, U.S. ENVIRONMENTAL PROTECTION AGENCY

FACILITY NAME/WELL NAME/NUMBER: Marathon WY 2000-02141

SUBJECT/DESCRIPTION: tubing Pressure

LOCATION: SW NE 5 3N 1W

COUNTY: Fremont TIME: 1:20 PM CITY:

STATE: WY

DATE: 7/11/00

WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW) (OTHER)

CAMERA: Pentax FILM: Kodak TYPE:Daylight ASA: 100 T: 1/f:

NEGATIVE LOCATION:

FILE #:

PROCESSED BY: Foto Fast PHOTO #: 7 of R1



## OFFICIAL PHOTOGRAPH REGION VIII, U.S. ENVIRONMENTAL PROTECTION AGENCY

\*

FACILITY NAME/WELL NAME/NUMBER: Marathon WY 2000-02141

SUBJECT/DESCRIPTION: Annulus Pressure

LOCATION: SW NE 5 3N 1W

CITY: COUNTY: Fremont STATE: WY

DATE: 7/11/00 TIME: 1:20 PM

WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW) (OTHER)
CAMERA: Pentax FILM: Kodak TYPE:Daylight ASA: 100 T: 1/f:

NEGATIVE LOCATION: FILE #:

PROCESSED BY: Foto Fast PHOTO #: 8 of R1

### Inspection Report for Well WY2000-02141

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

This form was printed on 05/18/1999. Carollec Bowden INSPECTOR(S): Ken Phillips / Judy Bingar Wilson Date 6 /5 /99 Time 10:30 am/pm REPRESENTATIVE CHUCK HENRY OPERATOR SAME Marathon Oil Company, Cody, WY Op ID MAR04 2R AC as of 03/01/1997 STEAMBOAT BUTTE 05 03N 01W Indian? Yes, Wind River Compliance staff: CARSON PRE-INSPECTION REVIEW Last inspection: 08/20/1998 Last MIT: Passed (10/21/1993) Inj Pressure Reported 1810 Allowable 1860 Wellhead equipment INSPECTION TYPE [ ]Routine [ ]PA [ [ ]Compliance [ ]Construction [ ]Workover [ ]Enforcement [ ]Response to emergency or complaint [ ]Other OBSERVED VALUES Inj Pressure at wellhead \_\_\_\_\_\_\_ psig Gauge range \_\_\_\_\_\_\_ psig Inj Pressure at pump \_\_\_\_\_\_ psig Gauge range \_\_\_\_\_ psig Annulus Pressure \_/oo \_\_\_\_\_ psig Gauge range \_\_\_\_\_ psig Pressure Gauge Present [ ] Yes [ ] No \_\_\_\_\_ Injection Rate 1/79.3 BWPD Cumulative Volume 16,306 Flow Meter Present [ Yes [ ]No Located at [ ] WELL [ ] PUMP Meter Type HALUBUSTON MC-TT [ ]Non-resettable [ ]Resettable [ ]Rate Indicator [ ]Other Operating Status [ ] Active [ ] TA [ ] PA [ ] Shut in [ ] Under Construction PHOTOGRAPHS? [ ] Yes [ ] No How the negatives are numbered: \_\_\_\_\_ PHOTO 6-ROLL I- INJECTION PRESS GAUGE

See back of page for comments, site conditions, and compliance followup.

7 - RULLI - ANNULAR PRESSURE GAUGE

## UIC Inspection

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nature of EPA Inspector(s	Year Bingar - Tuelson F	Zu Ar.O	11.
OFFICE USE ONLY - COMPLIA		Zu Ato	1 N
OFFICE USE ONLY - COMPLIA Observed Inj Pressure/Rat	NCE FOLLOWUP e/Volume Within Allowed Limits	Yes Yes	[ ] No
OFFICE USE ONLY - COMPLIA Observed Inj Pressure/Rat Acceptable fittings at si	NCE FOLLOWUP e/Volume Within Allowed Limits te		
OFFICE USE ONLY - COMPLIA Observed Inj Pressure/Rat Acceptable fittings at si Transfer of ownership? [	NCE FOLLOWUP e/Volume Within Allowed Limits te	Yes	



## OFFICIAL PHOTOGRAPH REGION VIII, U.S. ENVIRONMENTAL PROTECTION AGENCY

\*

PROJECT/CASE: Marathon Oil Co.

SUBJECT/DESCRIPTION: Injection Pressure Gauge CITY:Cody COUNTY: Fremont STATE:WY

DATE: 6/15/99 TIME: 10:30 a.m.

WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW) (OTHER)

CAMERA: Pentax FILM: Kodak TYPE:Daylight ASA: 100 T: 1/f:

NEGATIVE LOCATION: FILE #:

PROCESSED BY: Foto Fast PHOTO #:6 OF: Roll 1



## OFFICIAL PHOTOGRAPH REGION VIII, U.S. ENVIRONMENTAL PROTECTION AGENCY

\*

PROJECT/CASE: Marathon Oil Co.

SUBJECT/DESCRIPTION: Annular Pressure Gauge CITY:Cody COUNTY: Fremont STATE:WY

DATE: 6/15/99 TIME: 10:30 a.m.

WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW) (OTHER)

CAMERA: Pentax FILM: Kodak TYPE: Daylight ASA: 100 T: 1/f:

NEGATIVE LOCATION:

FILE #:

PROCESSED BY: Foto Fast PHOTO #:7 OF: Roll 1

### Inspection Report for Well WY2000-02141

REPRESENTATIVE

Op ID MAR04

2R AC as of 03/01/1997

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION
This form was printed on 08/13/1998.

INSPECTOR(S): Carol Bowden & Barbara Conklin Date 8 /20/98 Time 10112 am/pm

OPERATOR Marat

Marathon Oil Company, Cody, WY

STEAMBOAT BUTTE	05 03N 01W
Indian? Yes, Wind River	Compliance staff: CARSON
Last inspection: 0 <u>5</u> /22/199 <u>7</u>	CTION REVIEW Last MIT: Passed 10/21/1993
Inj Pressure Reported 1780 Allowable 1860	wrote NCL 10/7/88 to do 5-YAMET
Wellhead equipment	
	[ ]PA [ ]Compliance [ ]Construction sponse to emergency or complaint [ ]Other
OBSERVED VALUES	
Inj Pressure at wellhead\Soo	psig Gauge range_O-3000 psig
Inj Pressure at pump	psig Gauge range psig psig psig psig psig psig psig psig
Annulus Pressure	_ psig Gauge range $\bigcirc - \bigcirc \bigcirc \bigcirc$ psig
Pressure Gauge Present [ $\times$ ]Yes [	] No
Injection Rate\503.8 BWPD	Cumulative Volume 27453
Flow Meter Present [X]Yes []No Meter Type Halliburton MC-II	Located at [X]WELL [ ]PUMP
	settable [ ]Rate Indicator [ ]Other
Operating Status [X]Active []TA	[ ]PA [ ]Shut in [ ]Under Construction
PHOTOGRAPHS? [ ]Yes [X]No	How the negatives are numbered:
	DEVIEWS
-	KEVIEWED
	BY:
See back of page for comments, si	DATE:

## UIC Inspection

		_
		-
nature of EPA Inspector(s) Caral Le Bourden + Bublu	L'En R	
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site	Yes Yes	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits	Yes Yes	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site	Yes Yes NEW	[ ] No
OFFICE USE ONLY - COMPLIANCE FOLLOWUP Observed Inj Pressure/Rate/Volume Within Allowed Limits Acceptable fittings at site Transfer of ownership? [ ] Yes [ ] No OLD	Yes Yes NEW	[ ] No

**SFPA** 

United States Environmental Protection Agency

Name, Address, Phone and/or Merit Energy Company 13727 Noel Rd. Suite 1200 Kevin.Schmidt@meritene 972-628-1694	0, Dallas, TX 75240						
State			County				
WY							
WELL TYPE  Brine Disposal  ✓ Enhanced Recovery  Hydrocarbon Storage	Locate well in two directions from nearest lines of quarter section and drilling unit  Surface Location  SW 1/4 of NE 1/4 of Section 5 Township 3N Range   W  ft. from (N/S) Line of quarter section  ft. from (E/W) Line of quarter section.						
	Latitude		Longitude				
Permit or EPA ID Number	vy20000-02141	API Number 49-013	3-21402	Full Well Name	Tribal E 30	-T	
	INJECTION PRESSURE		TOTAL VOLUME INJEC	CTED	A	TUBING CASING NNULUS PRESSURE SPECIFIED IN PERMIT)	
MONTH, YEAR	MAXIMUM PSIG	BBI		MCF		MAXIMUM PSIG	
January-2019	1,020	45,623	0		0		
February-2019	1,000	41,511	0	0			
March-2019	960	44,205	44,205		0		
April-2019	1,000	42,182	0		0		
May-2019	1,000	45,167	0		0		
June-2019	1,020	45,696	45,696 0		0		
July-2019	1,200	47,255	47,255 0		0	0	
August-2019	1,220	48,155	5 0		0	0	
September-2019	1,200	47,325	0	0			
October-2019	1,200	49,050	0		0	0	
November-2019	1,200	47,400	0	0		0	
December-2019	1,160	49,577	0		0		
attachments and that, information is true, acc	alty of law that I have persona based on my inquiry of those curate, and complete. I am a imprisonment. (Ref. 40 CFR	individuals immedia ware that there are si	familiar with the info	obtaining the inform	nation, I belie	ve that the	
Name and Official Title (Plea	ase type or print)	Signature		17		Date Signed	
Kevin Schmidt Regulatory Analyst		7				01/15/20	

### **INSTRUCTIONS FOR FORM 7520-11**

Owners or operators of Class II injection wells should use this form to submit required monitoring data annually. Owners or operators of all other well classes should use Form 7520-8. Please submit a separate form for each well.

NAME, ADDRESS, PHONE AND/OR EMAIL OF PERMITTEE: Enter the name and street address, city/town, state, and ZIP code of the permittee. Also provide an email address (if available) and/or a phone number.

Enter the STATE and COUNTY where the well is located, For States that do not have counties, use the name of that State's equivalent jurisdiction at a more local level.

Check the appropriate box to describe the WELL TYPE

WELL LOCATION: Fill in the complete township, range, and section to the nearest quarter-quarter section. A township is north or south of the baseline, and a range is east or west of the principal meridian (e.g., T12N, R34W). Also include the distance, in feet, from the nearest north or south line and nearest east or west line of the quarter-section. Also, enter the latitude and longitude of the well in decimal degrees, to five or six places if possible, be sure to include a negative sign for the longitude of a well in the Western Hemisphere and a negative sign for the latitude of a well in the Southern Hemisphere.

**PERMIT OR EPA ID NUMBER:** Enter the well identification number or permit number assigned to the injection well by the EPA or the permitting authority.

API NUMBER: Enter the number assigned by the local jurisdiction (usually a State Oil and Gas Agency) using the American Petroleum Institute standard numbering system.

FULL WELL NAME: Enter the full name of the well or project.

Enter on a separate row, each month and year for which monitoring results are reported. Provide the following information.

MAXIMUM INJECTION PRESSURE, in pounds per square inch gauge (psig): TOTAL VOLUME INJECTED in barrels (bbl) or millions of cubic feet (mcf); and MAXIMUM TUBING-CASING ANNULUS PRESSURE (if specified in the permit) in psig.

**CERTIFICATION:** This form must be signed and dated by either: a responsible corporate officer for a corporation, by a general partner for a partnership, by the proprietor of a sole proprietorship, or by a principal executive or ranking elected official for a public agency.

PAPERWORK REDUCTION ACT NOTICE: The public reporting and recordkeeping burden for this collection of information is estimated to average 29.7 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions, develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information, adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information, search data sources, complete and review the collection of information, and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

# NALCO Champion

An Ecolab Company

# Complete Water Analysis Report

Customer: MERIT ENERGY CO Region: Steamboat Butte Field Location: Northwest WY

System: Production System

Equipment: C-1 Injection Sample Point: Wellhead Sample ID: AO19545

Acct Rep Email: dustin.mclean@ecolab.com

Collection Date: 12/11/2019 Receive Date: 12/23/2019

Report Date: 12/31/2019 Location Code: 32827

### Field Analysis

Bicarbonate Dissolved H2S 122 mg/L 59 mg/L Carbonate

Not Detected mg/L

Dissolved CO2

110 mg/L

pH of Water

6.8

Pressure Surface 1075 psi Temperature

120 ° F

## Sample Analysis

Conductivity (Calculated)

3036 µS - cm3

Ionic Strenath

0.05

Resistivity

Specific Gravity

1.004

Total Dissolved Solids

2021 mg/L

3.293 ohms - m

Cations

<0.050 mg/L

Iron Strontium Sodium

Phosphorus

Zinc

<0.100 mg/L 9.25 mg/L

1300.00 mg/L 0.139 mg/L 0.246 mg/L Manganese Calcium

296 mg/L Potassium 77.1 mg/L Lead <0.200 mg/L Barium Magnesium

56 mg/L <0.050 mg/L

<0.050 mg/L

Copper Aluminum <0.300 mg/L

Anions

Chloride

61 mg/L

Sulfate

99 mg/L

# Scale Type

**Anhydrite CaSO4 PTB** N/A **Barite BaSO4 PTB** N/A Calcite CaCO3 PTB 3.3 Celestite SrSO4 PTB N/A Gypsum CaSO4 PTB N/A Hemihydrate CaSO4 PTB N/A

Anhydrite CaSO4 SI Barite BaSO4 SI Calcite CaCO3 SI

0.05 -1.25

Gypsum CaSQ4 SI Hemihydrate CaSO4 SI

Celestite SrSO4 SI

-2.04 -1.83

-2.04

N/A

### Comments

13727 Noel Road · Suite 1200 · Dallas, Texas 75240 Ph 972.701.8377 - Fx 972.960.1252 - www.meritenergy.com

June 10, 2020

Mr. Gary Yang, UIC Enforcement

U.S. EPA, Region 8 Mailcode: 8ENF-W-SD 1595 Wynkoop Street Denver, CO 80202

RE:

MIT Submissions

Steamboat Butte and Circle Ridge Fields

Fremont County, Wyoming

Dear Mr. Yang,

Enclosed you will find the results of integrity tests performed recently in the Steamboat Butte and Circle Ridge fields for the following Merit Energy Company operated Class II injection wells:

Tribal E-30	Permit No./WY20000-02141
Tribal E-26	Permit No. WY2839-02129
Tribal E-2	Permit No. WY20993-06697
Tribal E-11	Permit No. WY21096-07391
Tribal C-28	Permit No. WY2825-04382
Shoshone 65-33T	Permit No. WY2707-02174
Shoshone 65-70T	Permit No. WY2708-02176
Shoshone 65-29T	Permit No. WY20000-02173
Shoshone 65-26T	Permit No. WY20000-02171
Shoshone 65-12T	Permit No. WY20000-02167

If you have any questions regarding the enclosed result or require additional information, please contact Kevin Schmidt at (972) 628-1694 or via email at kevin.schmidt@meritenergy.com.

Sincerely,

MERIT ENERGY COMPANY, LLC

Arlene Valliquette (

Regulatory Manager

Encls. (20)

UZ Entered

nitial

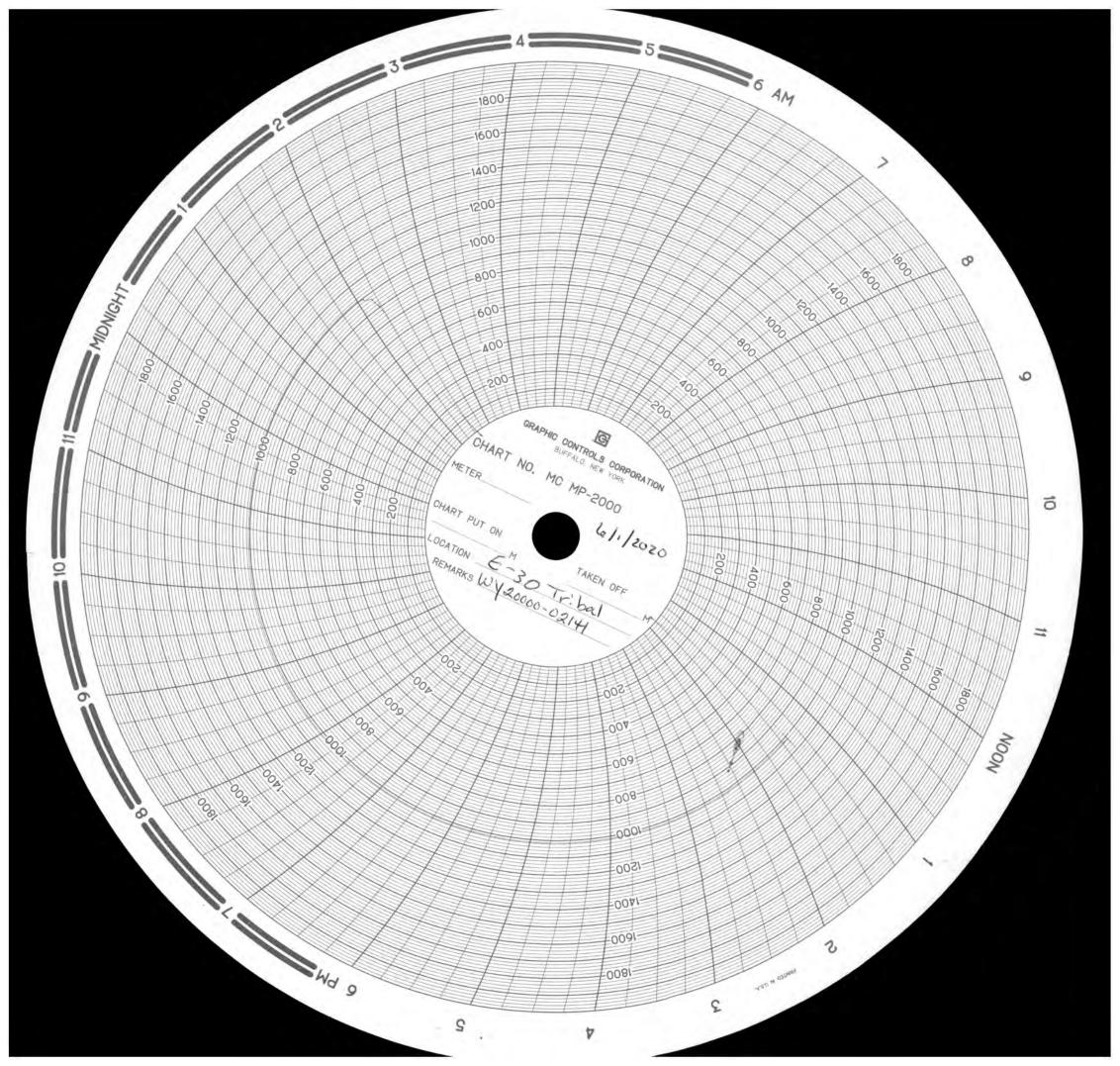
WY20000-02/+1

# Mechanical Integrity Test Tubing/Casing Annulus PressureTest U.S. Environmental Protection Agency Underground Injection Control Program 1595 Wynkoop Street, Denver, CO 80202-1129

Well Name: E-30 Field: Steam boot Location: Swild NE'4Sec: Operator: Last MIT: 6 1 3 1	Butte, Wind &	E/ County: Frem	WD Status: AO TA UC  ont State: WY  PSIG
207		] Yes [⋊] No	
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING		PRESSURE RI	CORD
Initial Pressure	120 # psig	psig	psig
End of test pressure	126 psig	psig	psig
CASING/TUBING A	NNULUS	PRESSURE RI	ECORD
0 minutes	psig	psig	psig
5 minutes	1020 th psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	1 500 4 psig	psig	psig
minutes	psig	psig	psig

# **MECHANICAL INTEGRITY PRESSURE TEST**

GSEW LOWNEL OF TH	uld to test
and of Witness D. A. S.	1
ignature of Witness: <u>Glen L.</u> L	lmajo
ignature of Witness: <u>Gulen L. U</u>	linajo
ignature of Witness: <u>Gulen L. (</u>	lmajo
ignature of Witness: <u>Gulen L. L</u>	lmajo
ignature of Witness: Que d, C	
	DLLOWUP
OFFICE USE ONLY - COMPLIANCE FO	DLLOWUP Date://
OFFICE USE ONLY - COMPLIANCE FO Staff  Do you agree with the reported test results?  If not, why?	DLLOWUP  Date: / _/  [ ] YES [ ] NO
OFFICE USE ONLY - COMPLIANCE FO	DLLOWUP  Date: / _/  [ ] YES [ ] NO
OFFICE USE ONLY - COMPLIANCE FOR Staff  Do you agree with the reported test results?  If not, why?  Possible violation identified? [ ] YES	DLLOWUP  Date: / _/  [ ] YES [ ] NO



				OMB No. 2040-00	42 Approval Expire	es 12/31/2018
<b>≎EPA</b>	ANNUAL D		Washington, DC	Protection Agency 20460 /ELL MONITOR	ING REPORT	
Name and Address of				e and Address of Surface		
Merit Energy Comp 13727 Noel Rd. Sui	any te 1200, Dallas, TX 7	75240		rthern Arapaho & Easter nd River Reservation	rn Shoshone Tribes	
Locate Well and Section Plat - 640		State WY		County	The second secon	t Number 0000-02141
	N	Surfa	ce Location Desc			
				SW 1/4 of ne 1/4 of S		
		Surfa Locat and	ce jon 1600ft. frm (N	I/S) N Line of quarter s Line of quarter sect	ection ion.	d drilling unit
w			Brine Disposal	✓ Individu		
-++			Hydrocarbon S	Storage Number of V	Well Number 3	30-T
	s		case Hame 11764		Well Nulliber	
	INJECTIO	N PRESSURE	TOTAL	. VOLUME INJECTED		NG ANNULUS PRESSURE
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January-2018	1005	1020	45978	0	0	0
February-2018	990	1000	44807	0	0	0
March-2018	928	1000	45017	0	0	0
April-2018	1005	1020	50832	0	0	0
May-2018	994	1020	48742	0	0	0
June-2018	1018	1020	51194	0	0	0
July-2018	1013	1020	50590	0	0	0
August-2018	996	1000	51565	0	0	0
September-2018	999	1000	51359	0	0	0
October-2018	926	980	48253	0	0	0
November-2018	830	840	40849	0	0	0
December-2018	894	920	47840	0	0	0
attachments and information is tr	that, based on my inc	quiry of those individe plete. I am aware that	uals immediately	On iliar with the information s responsible for obtaining cant penalties for submitt	the information, I bel	ieve that the
Name and Official Title Phillip White, Regu	(Please type or print)	ntered	Signature	John B		02/06/19

EPA Form 7520-11 (Rev. 12-11)

Date 2/25/19

GREEN BLUE CBI

# NALCO Champion

An Ecolab Company

## **Water Analysis Report**

Attention: Jason. Ciz@CHAMP-TECH.com

Customer: Merit Energy (1007905)

Location Code: 50291

Region: Steamboat Field

Sample ID: AK07269

Location: Northwest WY

Login Batch: 2018-01-18-001-45-FMSW

System: Injection System

Collection Date: 01/09/2018

Equipment: C-1 Injection

Receive Date: 01/18/2018

Lab ID: ABU-0045

Report Date: 01/22/2018

Sample Point: Injection Pump

Analyses	Result	Unit
Dissolved CO2	176	mg/L
Dissolved H2S	125	mg/L
рН	7.0	
Pressure	1043	psi
Temperature	137	o F

Analyses	Result	Unit
Bicarbonate	1171	mg/L
Carbonate	Not Detected	mg/L
Conductivity (Calculated)	14021	µS - cm3
lonic Strength	0.17	
Resistivity	0.713	ohms - m
Specific Gravity	1.005	
Total Dissolved Solids	8973.862	mg/L

Cations	Result	Unit	
Iron	0.361	mg/L	•
Manganese	0.007	mg/L	
Barium	0.044	mg/L	
Strontium	11.17	mg/L	
Calcium	332.1	mg/L	
Magnesium	63.1	mg/L	
Sodium	2683.08	mg/L	

Anions	Result	Unit
Chloride	2906	mg/L
Sulfate	1807	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.83
Barite BaSO4 SI	-0.04
Calcite CaCO3 PTB	217.8
Calcite CaCO3 \$1	0.94
Celestite SrSO4 SI	-0.25
Gypsum CaSO4 SI	-0.93
Hemihydrate CaSO4 SI	-0.83

Saturation Index Calculation (Tomson-Oddo Model)

### Comments

Page 1 of 1 01/24/2018

<b>≎EPA</b>	ANNUAL DI	١	Environmental Protect Washington, DC 20460 ECTION WELL		NG REPORT	
Merit Energy Co	ompany	11 TDV 550 400	Northe	-	Eastern Shoshor	ne Tribes
13727 Noel Road		allas, TX 75240	Wind F	County	Permit N	
Section Plat - 640 A		WY		Fremont	WYZU	1000-02141
	N		Location Description	of NE 1/4 of Se	ction 5 Township 3	N Range/W
<u>                                   </u>					of quarter section and d	
		Surface Location	on 1600 ft. frm (N/S) N 00ft. from (E/W) E L	Line of quarter se	ection	
w l			ELL ACTIVITY	TYPE OF PER		
	- <b> </b>	-	Brine Disposal Enhanced Recovery Hydrocarbon Storage		ells <u>1</u>	0 T
	s	Le	ase Name Trib	al E	Well Number 3	0 - 1
	INJECTION	PRESSURE	TOTAL VOLU	ME INJECTED		ANNULUS PRESSURE MONITORING)
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January 2017	1329	1380	73980	0	0	0
February 2017	1296	1325	51932	0	0	D
March 2017	1308	1320	75463	0	0	0
April 2017	1330	1380	77528	D	D	0
May 2017	1386	1420	81359	D	D	0
June 2017	1406	1440	83856	0	0	0
July 2017	1219	1380	66398	0	0	D
August 2017	1115	1178	57801	0	D	0
September 2017	1073	1118	54452	0	D	0
October 2017	1001	1023	53948	0	0	0
November 2017	965	980	50689	0	0	0
December 2017	940	960	49889	D	D	D
attachments and t information is true	hat, based on my inqu	uiry of those individua lete. I am aware that	als immediately respon	sible for obtaining	ubmitted in this docume the information, I believ ng false information, in	e that the
Name and Official Title ( Tiffany Stebbins			gnature Tiffan	ry Stebe	ma	1-31-18
EPA Form 7520-11 (Rev.	12-11) U2 E	ntered			GREEN BL	UE CBI
	Date	28/14	2	1		

Initial\_

### PAPERWORK REDUCTION ACT

The public reporting and record keeping burden for this collection of information is estimated to average 30 hours per quarter. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

EPA Form 7520-11 Reverse

# NALCO Champion

An Ecolab Company

# **Water Analysis Report**

Attention: Jason. Ciz@CHAMP-TECH.com

Location Code: 159188

Sample ID: AK07267

Login Batch: 2018-01-18-001-45-FMSW

Collection Date: 01/09/2018

Receive Date: 01/18/2018

Report Date: 01/22/2018

Sodium

01/24/2018

Analyses	Result	Unit
Dissolved CO2	106	mg/L
Dissolved H2S	188	mg/t
рН	7.2	
Pressure	30	psi
Temperature	130.5	۰F

Cations	Result	Unit
iron	0.232	mg/L
Manganese	0.024	mg/L
Barium	0.053	mg/L
Strontium	13.09	mg/L
Calcium	349.7	mg/L
Magnesium	60.6	mg/L
Sodium	4422.59	mg/L

Scale Type	Result	
Anhydrite CaSO4 SI	-0.78	
Barite BaSO4 PTB	0.0	
Barite BaSO4 SI	0.08	
Calcite CaCO3 PTB	229.3	
Calcite CaCO3 SI	0.97	
Celestite SrSO4 SI	-0.14	
Gypsum CaSO4 SI	-0.81	
Hemihydrate CaSO4 SI	-0.71	
22000 Barris 1-10-10 April 1	Saturation Index Calculation (	Tomson-Oddo Model)

Customer: Merit Energy (1007905)

Region: Steamboat Field

Location: Northwest WY

System: Water Injection System

Equipment: E Battery Injection

Lab ID: ABU-0045

Sample Point: Injection Pump

Analyses	Result	Unit
Bicarbonate	1147	mg/L
Carbonate	Not Detected	mg/L
Conductivity (Calculated)	21044	µS - cm3
Ionic Strength	0.25	
Resistivity	0.475	ohms - m
Specific Gravity	1.007	
Total Dissolved Solids	13468.29	mg/L

Anions	Result	Unit
Chloride	5523	mg/L
Sulfate	1952	mg/L

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I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name	and	Official	litte	(Please	type	or	print)	

TIFFANY STEBBINS, REGULATORY ANALYST

Signatur

Tiffany Steblins U2 Entered

Date Signed

2-13-17

EPA Form 7520-11 (Rev. 12-11)

321402 1830 esi 2

Date \_\_\_3(L)

### PAPERWORK REDUCTION ACT

The public reporting and record keeping burden for this collection of information is estimated to average 30 hours per quarter. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control numlin any correspondence. Do not send the completed forms to this address.

# NALCO Champion Water Analysis Report

An Ecolab Company

Attention: Jason. Ciz@CHAMP-TECH.com

Location Code: 5750

Sample ID: A101467

Login Batch: 170131144452-45-SW

Collection Date: 01/25/2017

Receive Date: 01/31/2017

Report Date: 02/01/2017

Analyses	Result	Unit
Dissolved CO2	211	mg/L
Dissolved H2S	255	mg/L
рН	6.72	
Pressure	7	psi
Temperature	125	o F

Customer: Merit Ener	gy (1007905)
----------------------	--------------

Region: Steamboat Butte Field

Location: Northwest WY

System: Production System

Equipment: E-Battery Injection

Lab ID: ABU-0045

Sample Point: Injection Pump

Analyses	Result	Unit	
Bicarbonate	988	mg/L	
Carbonate	Not Detected	mg/L	
Conductivity (Calculated)	18701	µS - cm3	
Ionic Strength	0.22		
Resistivity	0.535	ohms - m	
Specific Gravity	1.005		
Total Dissolved Solids	11971.06	mg/L	

Cations	Result	Unit
Iron	2.185	mg/L
Manganese	0.084	mg/L
Barium	<.25	mg/L
Strontium	5.31	mg/L
Calcium	347	mg/L
Magnesium	64.21	mg/L
Sodium	3854.27	mg/L

	Unif
4690	mg/L
2020	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.80
Barite BaSO4 SI	-1.57
Calcite CaCO3 PTB	118.5
Calcite CaCO3 SI	0.42
Celestite SrSO4 SI	-0.50
Gypsum CaSO4 SI	-0.79
Hemihydrate CaSO4 SI	-0.68
Saturation Index Calculation (Tomso	n-Oddo Model)

A line to to I	
Comments	

Cations were duplicated.

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02/02/2017 Page 1 of 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

	75.1 IEF5.14	EXISTING PERMITTEE	22002		NAME AND	ADDRESS OF SUR				
	-	MARATHON OIL						RAPAHO HONE TRI		
		1501 STAMPEDE CODY, WYOMII						ESERVATI		
		O OUTLINE UNIT ON	STATE	COUNTY		WILLIAM I	u , Die ie	PERMIT NUI		
s	ECTION PLAT	640 ACRES	WY			MONT		WY	20000-02141	
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1-+-			☐ Brine Dispo	osal	N Inc					
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- <del> </del> -	++-		☐ Hydrocarbo	on Storage	Numb	er of Wells 1	_	TRIB	1 F 20 T	
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			Lease Name	STEANIDO	AT BOTT	L Worl	Tullibol			
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	2015		1,480	69,23		2,473		0	0	
Feb	2015	1,390	1,504	85,27	_	2,751	-	0	0	
Mar	2015	1,280	1,280	71,05	-	2,369		0	0	_
Apr	2015		1,406	82,23	_	2,653		0	0	
May		1,373	1,440	82,23	_	2,766		0	0	_
Jun	2015	1,392		-	_		-	0	0	_
Jul	2015	1,382	1,400	86,30		2,784				
Aug	2015	1,412	1,450	87,45		2,821	-	0	0	_
Sep	2015	1,400	1,420	80,44		2,681		0	0	
Oct	2015	1,338	1,400	82,06	2	2,647		0	0	
Nov	2015	1,380	1,380	77,23	6	2,575		0	0	
Dec	2015	1,213	1,380	66,23	4	2,137		0	0	
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				CERTIFICA		f			.hitta ad im	
		ne penalty of law	ALCOHOLOGICAL PROPERTY.							
		and all attachme			-			T. T.		
	•	formation, I believe								
signifi	cant pena	alties for submitt	ing false inform	ation, includi	ing the po	ssibility of fin	e and im	prisonmen	t. (Ref. 40	
CFR 1	44.32).									

Tiffany Stebbins Sr. Regulatory Compliance Rep.

February 12, 2016

EPA Form 7520-11 (2-84)

initial

# NALCO Champion Water Analysis Report

An Ecolab Company

Attention: Jason. Ciz@CHAMP-TECH.com

Customer: Marathon Oil Co. (1500206)

Location Code: 159188 Sample ID: AF48011

Region: Steamboat Field Location: Northwest WY

Login Batch: 160120112531-45-CRSWO

System: Water Injection System Equipment: E Battery Injection

Collection Date: 01/12/2016 Receive Date: 01/20/2016

Report Date: 01/21/2016

Lab ID: ABU-0045

Sample Point: Injection Pump

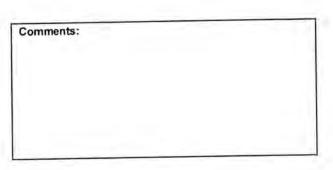
Analyses	Result	Unit mg/L	
Dissolved CO2	299		
Dissolved H2S	178	mg/L	
рН	7.3		
Pressure	30	psi	
Temperature	125	° F	

Analyses	Result	Unit
Bicarbonate	976	mg/L
Carbonate	Not Detected	mg/L
Conductivity	12163	µS-cm3
Ionic Strength	0.15	
Resistivity	0.822	ohms - m
Specific Gravity	1.006	
Total Dissolved Solids	7785.959	mg/L

Cations	Result	Unit	
Iron	1.839	mg/L	
Manganese	0.041	mg/L	
Barium	0.039	mg/L	
Strontium	11.99	mg/L	
Calcium	307.5	mg/L	
Magnesium	50.66	mg/L	
Sodium	2264.89	mg/L	

Anions	Result	Unit
Chloride	2100	mg/L
Sulfate	2073	mg/L

Scale Type	Result	
Anhydrite CaSO4 SI	-0.82	
Barite BaSO4 PTB	0.0	
Barite BaSO4 SI	0.14	
Calcite CaCO3 PTB	211.1	
Calcite CaCO3 SI	1.08	
Celestite SrSO4 SI	-0.07	
Gypsum CaSO4 SI	-0.81	
Hemihydrate CaSO4 SI	-0.67	



01/27/2016

I'm document comfaire the containment take a proposition intermation of NALCO Champion. The material agrees to maintain The publicativative of the taken of the contacts and those most expedition it by any enterind discover the contacts of it is any Parametry of programming with the programming of the control of th

**⊕EPA** 

United States Environmental Protection Agency Washington, DC 20460

Name and Address of Existing Permittee  Marathon Oil Company 1501 Stampede Avenue, Cody, WY 82414			Northe	Name and Address of Surface Owner  Northern Arapaho and Eastern Shoshone Tribes Wind River Reservation			
Locate Well and C		State WY		County Fremont	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number 1000-02141	
Section Plat - 640 Acres			Location Descript			000-02141	
	i i i i i	1/-	4 of 1/4 of _SW	1/4 of NE 1/4 of Se	ection Township	3N Range 1W	
		Surface	on <u>1600</u> ft. frm (N/S)	ns from nearest lines  N Line of quarter secti		drilling unit	
w	111111111111111111111111111111111111111		LL ACTIVITY	TYPE OF PE	VAL T		
	-	-	Brine Disposal Enhanced Recove Hydrocarbon Stor				
F-1-F-4		- Le	ase Name Steambo	at Butte	Well Number T	ribal E 30-T	
Liii	s	_					
	NE CALL	, distribute.	545			3 ANNULUS PRESSU	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	TOTAL VO	DLUME INJECTED MCF	MINIMUM PSIG	MAXIMUM PSIC	
January-2014	1256	1396	78309	0	0	0	
ebruary-2014	1243	1600	78993	0	0	0	
March-2014	1347	1368	86301	0	0	0	
April-2014	1285	1327	80438	0	0	0	
May-2014	1307	1320	80507	0	0	0	
	1323	1323	79259	0	0	0	
June-2014		1.5.3% (s	80685	0	0	0	
	1289	1323	00000			~	
July-2014	1289 1217	1323	70922	0	0	0	
July-2014 August-2014	10.5	1000	100000	0			
August-2014 September-2014	1217	1290	70922		0	0	
June-2014 July-2014 August-2014 September-2014 October-2014 November-2014	1217 1266	1290 1280	70922 78981	0	0	0	

### PAPERWORK REDUCTION ACT

The public reporting and record keeping burden for this collection of information is estimated to average 30 hours per quarter. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

# NALCO Champion

# **Water Analysis Report**

An Ecolah Company

Attention: Jason. Ciz@CHAMP-TECH.com

Location Code: 159188 Sample ID: AD00680

Login Batch: 141202095418 Collection Date: 11/24/2014 Receive Date: 12/02/2014

Report Date: 12/03/2014

Customer: Marathon Oil Co. (1500206)

Region: Steamboat Butte Field

Location: Northwest WY

System: Water Injection System

Equipment: E Battery Injection

Lab ID: ABU-0045

Sample Point: Injection Pump

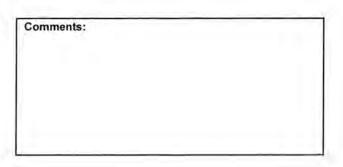
Result	Unit	
192	mg/L	
205	mg/L	
7.15		
50	psi	
102	۰F	
	192 205 7.15 50	

Result	Unit
4624	mg/L
Not Detected	mg/L
19347	µS - cm3
0.19	
0.517	ohms - m
1.0078	
12382.09	mg/L
	4624 Not Detected 19347 0.19 0.517 1.0078

Cations	Result	Unit
Iron	0.023	mg/L
Manganese	0.003	mg/L
Barium	0.007	mg/L
Strontium	1.011	mg/L
Calcium	36.84	mg/L
Magnesium	6.33	mg/L
Sodium	3840.88	mg/L

Result	Unit
1757	mg/L
2116	mg/L
	1757

Result
-1.87
-0.53
18.4
0.37
-1.17
-1.70
-1.56



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12/10/2014 Page | of |

2:24

# Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:			Date:	6 1	3,15
Test conducted by: Ch	is Hamin				
Others present:					
Others present.					
Well Name: TRIBAL E #30		Ty	pe: ER SWD	Stati	us: AC TA UC
Field: STEAMBOAT BU	JTTE	_			
Location: SW NE Sec	:5 T3NN	N/S R	1W E/W Con	inty: FRE	MONT State: WY
Last MIT: 10 / 27	/ 2010 Maxim	um Allo	wable Pressure:	1830	PSIG
Test after well re	ermit?     Yes   X work?     Yes   X ng test?   X   Yes	] No ] No ] No	If Yes, rate:psig	286	<u>3</u> bpd
MIT DATA TABLE	TEST #1		TEST	#2	TEST #3
TUBING	PRESSURE				
Initial Pressure	1400	psig		psig	psig
End of test pressure	1400	psig		psig	psig
CASING / TUBING	ANNULU	<u>s</u>	PRESSUR	E	
0 minutes	1005/1400	psig		psig	psig
5 minutes	1000/1400	psig		psig	psig
10 minutes	1000/1400	psig		psig	psig
15 minutes	1000/1400	psig		psig	psig
20 minutes	1000/1400	psig		psig	psig
25 minutes	1000/1400	psig		psig	psig
30 minutes	1000/1400	psig		psig	psig
minutes		psig		psig	psig
minutes	- /-	psig		psig	psig
RESULTS	Pass [	] Fail	[ ] Pass	[ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test? [ ] Yes [ \ ] No U2 Entered

GREEN BLUE CB|

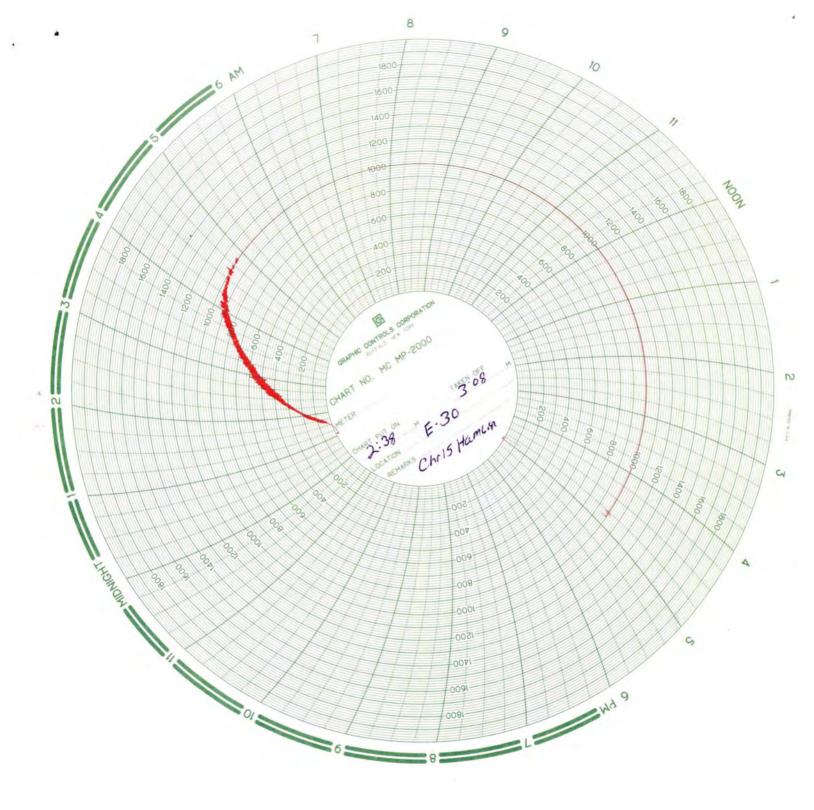
Page 1 of 2

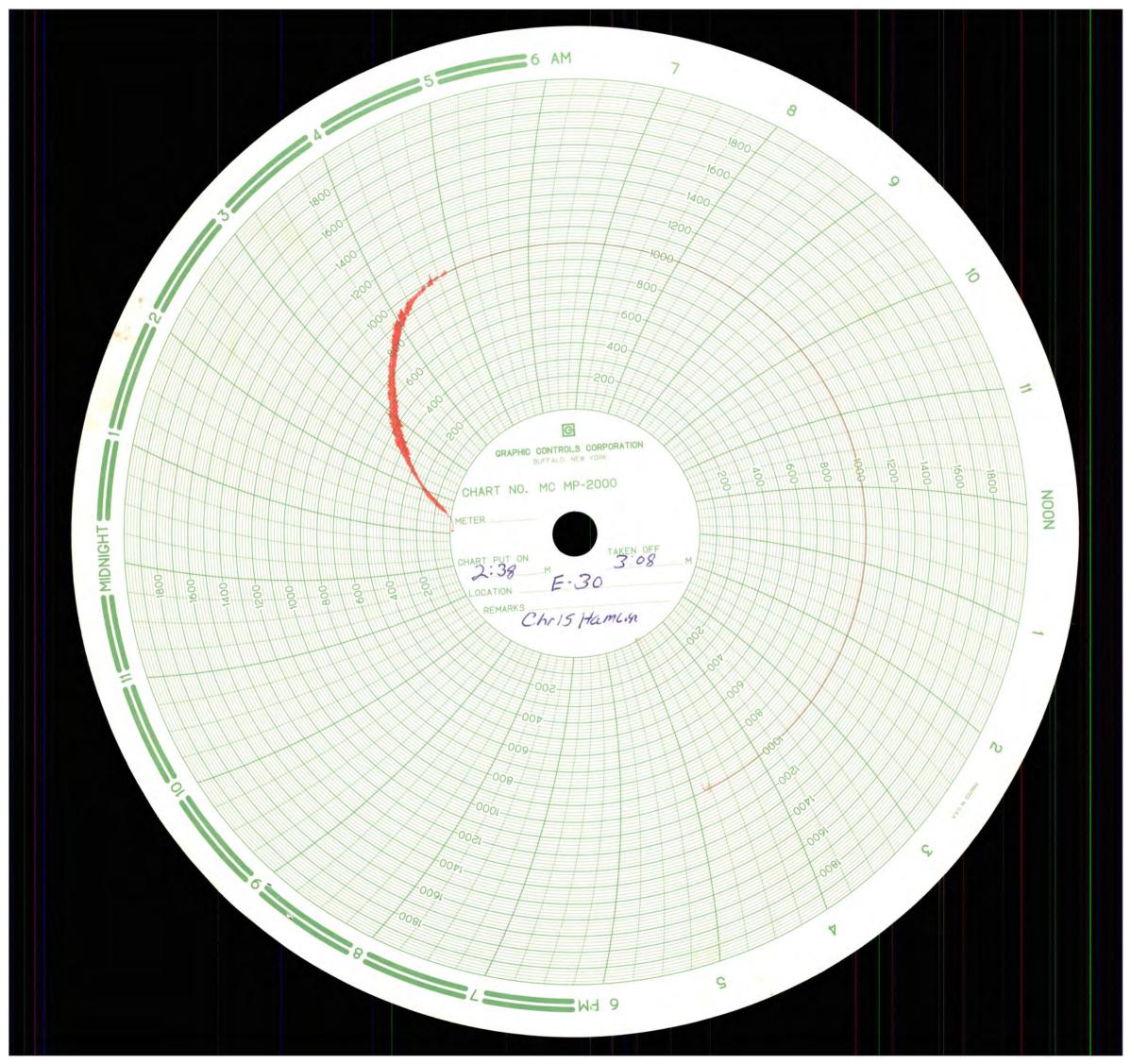
Page 1 of 2

Initial (over)

# MECHANICAL INTEGRITY PRESSURE TEST

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		The state of the s
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7.60%		***
4. 1		V2.00-7
		10.0%
8		
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		· · · · · · · · · · · · · · · · · · ·
Signature of Witness:	t t	
April -		Milk y
OFFICE USE ONLY	- COMPLIANCE FOLLOW	V LID
THEE COE ONE!	- COM LIANCE FOLLOV	
taff:		Day .
		Date: / /
Do you agree with the rep	orted test results?	] YES [ ] NO
f not, why?		
ossible violation identifie	ed?	
		S [] NO
YES, what:		
F YES, follow-up initiat	ted? [ ] YES	
1 NO - why not?		





Marathon Oil

Marathon Oil Company

1501 Stampede Avenue Cody, WY 82414-4719

Telephone: 307.527.2223 Mobile: 307.250.7476

Fax: 307.527.3280

tastebbins@marathonoil.com

May 7, 2015

Don Breffle
Mail Code 8ENF-UFO
United States Environmental Protection Agency
1595 Wynkoop Street
Denver, CO 80202-1129

Re: Underground Injection Control (UIC)

Annual Mechanical Integrity Testing

Circle Ridge & Steamboat Butte Oil Fields

Fremont County, Wyoming

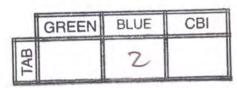
### Dear Don:

Marathon intends to perform mechanical integrity tests on injection wells that are due for integrity testing in 2015. These wells include active and temporarily abandoned injectors. Testing will be performed the week of May 18 to May 22, 2015. All participants can plan to meet daily at the main Marathon office in the Steamboat Field at 7:00 A.M. for a brief safety overview prior to proceeding to the first well site for the day.

If there are any changes, we will notify you right away. Upon completion of the mechanical integrity tests, Marathon will forward original paperwork to your office. Please contact me at the phone number or email listed above if you need additional information.

FIELD	WELLS*	EPA Permit No.	API No.	Status
Circle Ridge	Shoshone 65-02	WY20969-06387	49-013-06766	Active
Circle Ridge	Shoshone 65-12	WY20000-02167	49-013-06837	Active
Circle Ridge	Shoshone 65-20	WY20000-02169	49-013-06833	TA
Circle Ridge	Shoshone 65-25	WY20000-02170	49-013-06830	TA
Circle Ridge	Shoshone 65-26	WY20000-02171	49-013-06844	Active
Circle Ridge	Shoshone 65-29	WY20000-02173	49-013-06852	Active
Circle Ridge	Shoshone 65-36	WY20000-02165	49-013-06829	TA
Circle Ridge	Shoshone 65-41	WY20000-02179	49-013-06839	TA
Circle Ridge	Shoshone 65-42	WY20000-02182	49-013-06851	TA
Circle Ridge	Shoshone 65-68	WY20837-02175	49-013-21497	TA
Circle Ridge	Shoshone 65-70	WY20708-02176	49-013-21498	Active
Circle Ridge	Shoshone 65-77A	WY20521-02119	49-013-21637	TA
Circle Ridge	Shoshone 66-03	WY20000-03088	49-013-06788	TA
Circle Ridge	Shoshone 66-26	WY20821-02160	49-013-06748	TA

<sup>\*</sup> Note: List is sorted by well name and number and is not necessarily in the same order as daily well testing.



FIELD	WELLS*	EPA Permit No.	API No.	Status
Steamboat Butte	Brinkerhoff 4	WY20000-02133	49-013-06364	Active
Steamboat Butte	Tribal C-28-Phos	WY20825-04382	49-013-21081	Active, dual
Steamboat Butte	Tribal C-28-Tens	WY20825-04382	49-013-21081	Active, dual
Steamboat Butte	Tribal E-02	WY20993-06697	49-013-06404	Active
Steamboat Butte	Tribal E-26	WY20839-02129	49-013-06411	Active
Steamboat Butte	Tribal E-30	WY20000-02141	49-013-21402	Active

<sup>\*</sup> Note: List is sorted by well name and number and is not necessarily in the same order as daily well testing.

Attached is a location map for the Steamboat Butte field office.

Sincerely,

Tiffany Stebbins

Sr. Regulatory Compliance Rep.

Attachment (1)

Copy by email and mail:

Deffany Steletins

Gary Wang Mail Code: 8ENF-UFO U.S. EPA Region 8 1595 Wynkoop Street Denver, CO 80202-1129

Trisha Cachelin Wind River Agency Bureau of Indian Affairs P.O. Box 158 Fort Washakie, WY 82514

Stuart Cerovski Bureau of Land Management Lander Field Office 1335 Main Street Lander, WY 82520

Tom Kropatsch
Deputy Agency Supervisor
Wyoming Oil & Gas Conservation Commission
P. O. Box 2640
Casper, WY 82602-2640

# Steamboat Butte Field Office Location



Point A is the Steamboat Butte Field Office. Traveling northwest on WY HWY 26 out of Riverton, approximately 10 miles past Kinnear turn right onto Diversion Dam Road across the cattle guard toward the Steamboat Butte Field. Cross the canal and turn right again on Maverick Springs Road. (STOP AT STEAMBOAT BUTTE OFFICE ON THE LEFT).

CHECK IN AT THE STEAMBOAT BUTTE FIELD OFFICE PRIOR TO TRAVELING TO ANY
MARATHON OPERATED WIND RIVER FIELD LOCATION

## CONTACT INFORMATION

MARATHON CONTACTS					
Name	Title	Office	Mobile		
Steve Ellis	Wind River HES	307-856-6228 x2223	307-461-3667		
Kelly Saltzgiver	Wind River - Superintendent	307-856-6228 x2222	307-231-3666		
Scott Holman	Wind River - Workover Supv.	307-856-6228 x2242	307-250-5068		
Justin Lajeunesse	Wind River - Production Supv.	307-856-6228 x2230	307-850-4930		
Trevor Pollock	Wind River - Engineering	307-587-4226 x2228	307-699-1425		

### Wang, Gary

From: Stebbins, Tiffany A. (MRO) <tastebbins@marathonoil.com>

Sent: Friday, May 15, 2015 10:35 AM

To: Breffle, Don

Cc: Wang, Gary; (Stuart\_Cerovski@blm.gov); Trisha Cachelin; Holman, Scott (MRO); Pollock,

Trevor (MRO)

Subject: Marathon annual MITs on injection wells, Wind River Reservation

Attachments: Ltr to EPA re MIT witness invitation 5-07-15.pdf

Re: Underground Injection Control (UIC)

Annual Mechanical Integrity Testing

Circle Ridge Oil Field Steamboat Butte Oil Field Fremont County, Wyoming

This is a courtesy reminder email.

Marathon is still planning to begin mechanical integrity testing Monday May 18 on injection wells that are due for integrity testing in 2015. These wells include active and temporarily abandoned injectors. A copy of my notification letter, that includes a well list, is attached for reference.

Testing will be performed the week of May 18 to May 22, 2015. All participants can plan to meet daily at the main Marathon office in the Steamboat Field at 7:00 A.M. for a brief safety overview prior to proceeding to the first well site for the day.

Thanks.

7iffany Stebbins

Regulatory Compliance Rep Marathon Oil Company Wyoming Asset Team Phone 307-527-2223 Cell 307-250-7476

## Wang, Gary

From: Stebbins, Tiffany A. (MRO) <tastebbins@marathonoil.com>

Sent: Tuesday, June 02, 2015 7:58 AM

To: Breffle, Don; Wang, Gary Subject: Marathon's annual MIT's

Don and Gary,

Wanted to provide an update to our integrity testing. We were able to test all Circle Ridge wells prior to bad weather coming in. Due to current weather conditions and very muddy conditions, we've been unable to reach and test the Steamboat Butte wells. We are hoping to begin testing wells tomorrow.

Thanks,

7iffany Stebbins

Regulatory Compliance Rep Marathon Oil Company Wyoming Asset Team Phone 307-527-2223 Cell 307-250-7476

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT NAME AND ADDRESS OF EXISTING PERMITTEE NAME AND ADDRESS OF SURFACE OWNER MARATHON OIL COMPANY JOINT BUSINESS COUNCIL 1501 STAMPEDE AVENUE P. O. BOX 217 CODY, WYOMING 82414 FORT WASHAKIE, WY 82514 LOCATE WELL AND OUTLINE UNIT ON COUNTY STATE PERMIT NUMBER SECTION PLAT - 640 ACRES WY20000-02141 WY FREMONT SURFACE LOCATION DESCRIPTION 14 OF 5 TOWNSHIP 3N RANGE 1W SW %OF NE % SECTION LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Location 1600 ft. from (N/S) N Line of quarter section (see attachment) 1600 ft. from (E/W) E Line of quarter section W WELL ACTIVITY TYPE OF PERMIT ☐ Brine Disposal Individual Enhanced Recovery ☐ Area Number of Wells ☐ Hydrocarbon Storage STEAMBOAT BUTTE TRIBAL E 30-T 14-20-0258-6504 Lease Name Well Number TUBING - CASING ANNULUS PRESSURE INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING) MONTH YEAR AVERAGE PSIG MAXIMUM PSIG BBL **BWIPD** MINIMUM PSIG MAXIMUM PSIG 88,520 2013 1.164 1.311 2,855 Jan 0 0 42.824 Feb 2013 1,006 1,281 1.529 0 0 Mar 2013 1,133 1,225 78,469 2,531 0 0 65,923 2,197 Apr 2013 1,038 1,211 0 0 82,517 2,662 May 2013 1,196 1,312 0 0 Jun 2013 1,129 1,358 84,981 2,833 0 0 Jul 2013 1,294 1,356 79.853 2.576 0 0 88,020 Aug 2013 1,392 1,392 2,839 0 0 Sep 2013 1,210 1,394 75,258 2,509 0 0 2,799 2013 1.413 1,462 86,782 Oct 0 0 88,374 2,946 Nov 2013 1.358 1.454 0 0 Dec 2013 1.316 1,440 84,973 2,741 NA=Not Available CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) Tiffany Stebbins Adv. Regulatory Compliance Rep. Diffany Stebbins

DATE SIGNED

February 12, 2014

EPA Form 7520-11 (2-84)

	GREEN	BLUE	CBI
AB		7/	

U2 Entered

Date 3/co/19 Initial

# NALCO Champion

An Ecolab Company

Attention: William.Smith2@CHAMP-TECH.com

Customer: Marathon Oil Co. (1500206)

Matrix: SWICPIC Sample ID: AB03906

Collection Date: 11/25/2013 Receive Date: 12/03/2013 Report Date: 12/05/2013

Login Batch: 131203100455-45-SW

Equipment: Water Header Location Code: 114394 Location: Northwest WY Region: Not Available

System: Water Injection System Sampling Point: E-5 Battery

WATER ANALYSIS REPORT

Lab ID: ABU-0045

Manganese pH of Water Pressure Surface Resistivity Sodium Specfic Gravity Strontium Sulfate Temperature **Total Dissolved Solids**  Result -0.74-2.390.0001 927 246.1 1.21 356.7 Not Detected -0.071980 13086 200 414 -0.69-0.560.17 0.719 56.57 0.0001 7.5 90 0.764 2383.69 1.007 11.02 2660 118 8375.699

Unit mg/L mg/L PTB mg/L mg/L mg/L µS-cm3 mg/L mg/L mg/L mg/L mg/L psi ohms - m mg/L mg/L mg/L º F mg/L

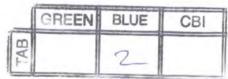
SEPA

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

		20000000000		NAME AND AD	DRESS OF SURF			
	MARATHON OIL						S COUNCI	L
	1501 STAMPED					P. O. BOX		
LOCATE WELL	CODY, WYOM  AND OUTLINE UNIT ON	STATE	COUNTY		FORT W	ASHAKI	E, WY 825 PERMIT NUM	
	PLAT 640 ACRES	7.1.1.2		EDEMC	NIT			0000-02141
	N	WY	LOCATION DESCRIPT	FREMO	)N I		WYZ	0000-02141
$\Box$	N	SURFACE			1/4 SECTION	5 7	TOWNSHIP	3N RANGE
		LOCATE						
l i i i			ELL IN TWO DIRECTION	JNS FROM NEAR	EST LINES OF G	JUAKTER SE	CTION AND D	KILLING UNIT
TIT	TTTT	Surface		6 for a /N/O	N	Una of account	tanandina (an	#b#\
-+-+-+		Locatio		ft. from (N/S)		-	ter section (se	e attachment)
111	1711	and	1600 ft. from (E	/W) E	Line of quarter	r section		
	-5	E	A/ELL ACTIVITY		TYPE OF PERM	AIT		
			WELL ACTIVITY	☑ Individu		VIII		
		Brine D		Area	Jai			
			ced Recovery		Wells			
		LI Hydrod	carbon Storage		Wells		TDID II F	20 75
	S		STEAMBO				TRIBAL E	30-1
	3	Lease Name	e 14-20-0258-	6504	Well N	umber		
	INJECTION	N PRESSURE	TOTA	AL VOLUME INJE	CTED			NULUS PRESSU
	T						(OPTIONAL M	
ONTH YEAR	111111111111111	MAXIMUM PSIC		_	BWIPD	MINIMU	JM PSIG	MAXIMUM PS
Jan 2012		1,411	77,343 80,526		2,495		0	0
Feb 2012		1,555			2,295		0	0
Mar 2012		1,356	71,142 84,995		2,833		0	0
Apr 2012 May 2012		1,421 1,500	94,110		3,036		0	0
May 2012 Jun 2012		1,401	83,306		2,777		0	0
Jul 2012		1,525	82,842		2,672		0	0
Aug 2012		1,125	63,650		2,053		0	0
Sep 2012		1,150	69,865		2,329		0	0
Oct 2012		1,345	83,835		2,704		0	0
Nov 2012		1,330	81,290		2,710		0	0
Dec 2012	-	1,238	77,590		2,503		0	0
2012	1,002	1,200	NA=Not Ava		2,000		0	
			CERTIFICA					

U2 Enterec
Date 3にしる





# Laboratory • Gas Measurement Emissions Testing • Sample Collection

29 Country Acres Rd, Riverton, WY 82501 • Toll Free: (866) 985-0866 • E-mail: Info@Precision-Labs.com • Online: www.Precision-Labs.com

Laboratory Analytical Report

Customer Name:

Marathon

Order ID:

13012404

Project ID:

Wind River UIC Annual Sampling

Report Date:

1/25/2013

Lab Sample ID:

13012404-01

Date

Time

Customer Sample ID:

PW Steamboat Butte E5

Collection:

1/24/2013 10:05 AM

Matrix:

Aqueous

Received:

1/24/2013 12:30 PM

Notes:

Analyses	Result	Units	RL	Qual. Method	Analysis Date/Time	Analyst
Conductivity	10800	µS/cm	5	SM 2510 B	1/24/2013 1:54:00 PM	KS
рН	6.96	s.u.	0.01	EPA 150.1	1/24/2013 2:02:00 PM	KF
Specific Gravity	1.007	g/cc	0.001	ASTM D 1429-03	1/24/2013 1:50:00 PM	KS
Total Dissolved Solids (TDS) @ 180	8100	mg/L	5	SM 2540 C	1/25/2013 11:59:00 AM	KS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MARATHON OIL COMPANY   JOINT BUSINESS COUNCIL   P.O. BOX 217   CODY, WYOMING 82414   FORT WASHAKIE, WY 82514	IME AND A	ADDRESS OF	EXISTING PERMITTEE			NAME AND ADI	DRESS OF SURFA	CE OWNER	
CODY, WYOMING 82414   FORT WASHAKIE, WY 82514		N	MARATHON OIL	COMPANY					NCIL
STATE									
N							FORT WA		
N					COUNTY				
		cononron	O TO MONEO				NT		WY2000-02141
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface			N T T T						
Surface   Location   1600   ft. from (N/S)   N   Line of quarter section (see attachment)	1								
Location   1600   ft. from (N/S)   N   Line of quarter section (see attachment)		1 1	iii			ONS FROM NEAR	EST LINES OF QU	ARTER SECTION A	ND DRILLING UNIT
And   1600   ft. from (E/W)   E   Line of quarter section	-	i i i		1 77:00				Section in the	
	-+-	+-+-	I IXI			-			(see attachment)
WELL ACTIVITY   TYPE OF PERMIT   Brine Disposal   Mindividual   Area   Area   Hydrocarbon Storage   TRIBAL E 30-T	1	1 1	1 1 1	and	1600 ft. from (E	W)E	Line of quarter s	section	
Brine Disposal   Main Individual   Individual Individual   Individual Individual   Individual Individual   Individual Individual   Individual Individual Individual Individual Individual Individual Individual Individual Individual Individ	1	++-	111				T. (25 05 25 25 25 25 25 25 25 25 25 25 25 25 25	-	
Number of Wells   TRIBAL E 30-T						<b>57</b> 1		1	
Hydrocarbon Storage	1	1 1			44 - 34		ıaı		
TRIBAL E 30-T  Lease Name 14-20-0258-06504 Well Number    INJECTION PRESSURE   TOTAL VOLUME INJECTED   TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)							Walle		
Lease Name   14-20-0258-06504   Well Number	-			☐ Hydroc	arbon Storage	Number of	VVCII3		1 F 20 F
TUBING - CASING ANNULUS PRESSURE   TOTAL VOLUME INJECTED   TUBING - CASING ANNULUS PRESSURE   TOTAL VOLUME INJECTED   (OPTIONAL MONITORING)   (OPTIONAL MONITORING)   MAXIMUM PSIG   BBL   BWIPD   MINIMUM PSIG   MAXIMUM PSIG   MAXI		1		7	14.20.0250	06504	7.1		L E 30-1
INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING)  INTH YEAR AVERAGE PSIG MAXIMUM PSIG BBL BWIPD MINIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIM			,	Lease Name	14-20-0258-	06504	Well Nun	nber	
INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING)  INTH YEAR AVERAGE PSIG MAXIMUM PSIG BBL BWIPD MINIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIMUM PSIG MAXIMUM PSIG MAXIM PSIG MAXIM								TURING - CASIN	IG ANNI II I IS PRESS
NTH         YEAR         AVERAGE PSIG         MAXIMUM PSIG         BBL         BWIPD         MINIMUM PSIG         MAXIMUM PSIG           Jan         2011         1,071         1,135         71,909         2,320         0           Feb         2011         1,093         1,148         61,961         2,213         0           Mar         2011         980         1,152         65,835         2,124         0           Apr         2011         962         1,214         63,558         2,119         0			INJECTION	PRESSURE	TOTA	AL VOLUME INJE	CTED		
Jan     2011     1,071     1,135     71,909     2,320     0       Feb     2011     1,093     1,148     61,961     2,213     0       Mar     2011     980     1,152     65,835     2,124     0       Apr     2011     962     1,214     63,558     2,119     0	ONTH	VEAD	AVERAGE PSIG	MAYIMI IM PSIG	BRI		RWIPD		
Feb     2011     1,093     1,148     61,961     2,213     0       Mar     2011     980     1,152     65,835     2,124     0       Apr     2011     962     1,214     63,558     2,119     0						9		WIII VIII OW T SIG	
Mar     2011     980     1,152     65,835     2,124     0       Apr     2011     962     1,214     63,558     2,119     0									
Apr 2011 962 1,214 63,558 2,119 0									
									_
									0
	Jul	2011	1,249	1,298	72,58	8	2,342		0
Jul 2011   1,249   1,298   72,588   2,342   0	Aug	2011	1,031	1,299	66,22	3	2,136		0
	Sep	2011	1,079	1,186	60,75	5	2,025		0
Aug 2011 1,031 1,299 66,223 2,136 0	Oct	2011	1,018	1,203			2,060		0
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0	Nov	2011	1,200	1,333	68,96	1	2,299		0
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0	Dec	2011	1,279	1,352	76,51	В	2,468		0
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0									
Jun 2011 1,286 1,398 61,336 2,045	May Jun Jul Aug Sep Oct Nov	2011 2011 2011 2011 2011 2011 2011	1,146 1,286 1,249 1,031 1,079 1,018 1,200	1,258 1,398 1,298 1,299 1,186 1,203 1,333	72,66- 61,33( 72,58) 66,22: 60,75: 63,85( 68,96)	4 6 8 3 5 0	2,344 2,045 2,342 2,136 2,025 2,060 2,299		
Jul 2011   1,249   1,298   72,588   2,342   0	Aug	2011	1,031	1,299	66,22	3	2,136		0
Aug 2011 1,031 1,299 66,223 2,136 0	Sep	2011	1,079	1,186					
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0									
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0	Nov	2011	1,200	1,333	68,96	1	2,299		0
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0	Dec	2011	1,279	1,352	76,51	В	2,468		0
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0		2011	.,	1,,,,,,,			-,		
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0       Dec     2011     1,279     1,352     76,518     2,468     0									
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0       Dec     2011     1,279     1,352     76,518     2,468     0			111111					100	
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0	certif	under th	e penalty of law	that I have pers	onally examine	d and am fa	miliar with the	e information s	submitted in
Aug       2011       1,031       1,299       66,223       2,136       0         Sep       2011       1,079       1,186       60,755       2,025       0         Oct       2011       1,018       1,203       63,850       2,060       0         Nov       2011       1,200       1,333       68,961       2,299       0         Dec       2011       1,279       1,352       76,518       2,468       0         NA=Not Available         CERTIFICATION					F. C. S.				
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0  NA=Not Available CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in	uns uc	ocument a	and an attachme	nis and mai, ba	sed on my mqu	iry or those i	iluiviuuais iili	illeulately les	polisible for
Aug     2011     1,031     1,299     66,223     2,136     0       Sep     2011     1,079     1,186     60,755     2,025     0       Oct     2011     1,018     1,203     63,850     2,060     0       Nov     2011     1,200     1,333     68,961     2,299     0       Dec     2011     1,279     1,352     76,518     2,468     0       NA=Not Available       CERTIFICATION	obtaini	na the inf	ormation. I belie	ve that the info	rmation is true.	accurate, an	nd complete. I	am aware tha	at there are
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0  NA=Not Available CERTIFICATION It certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for									
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0 NA=Not Available CERTIFICATION Certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are	signific	cant pena	ities for submit	ting false infor	mation, includin	ig the possib	ulity of fine ar	nd imprisonme	ent. (Ref. 40
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0  NA=Not Available CERTIFICATION It certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for	CFR 14	14.32).							
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0  CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40)									
Aug 2011 1,031 1,299 66,223 2,136 0 Sep 2011 1,079 1,186 60,755 2,025 0 Oct 2011 1,018 1,203 63,850 2,060 0 Nov 2011 1,200 1,333 68,961 2,299 0 Dec 2011 1,279 1,352 76,518 2,468 0 NA=Not Available CERTIFICATION Certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are									
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EPA Form 7520-11 (2-84)

-	1	-

Date 5/3/12



Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Marathon Oil Company

Project: Not Indicated Lab ID: C11120876-001

Client Sample ID: E5 Sampled By: Bryce Gilbert Report Date: 01/18/12

Collection Date: 12/29/11 09:10

Date Received: 12/30/11

Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/ RL QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES						
Specific Gravity 60/60F	1.002	g/cc	H	0.001	Gravimetric	01/13/12 12:00 / ph
Conductivity @ 25 C	11800	umhos/cm		1	A2510 B	01/03/12 15:33 / wc
Solids, Total Dissolved TDS @ 180 C	8400	mg/L	D	35	A2540 C	01/04/12 15:55 / wc

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.

Form Approved, OMB No 2000-0042. Approval expires 9-30-86 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT NAME AND ADDRESS OF EXISTING PERMITTEE NAME AND ADDRESS OF SURFACE OWNER MARATHON OIL COMPANY JOINT BUSINESS COUNCIL 1501 STAMPEDE AVENUE P.O. BOX 217 FORT WASHAKIE, WY 82514 CODY, WYOMING 82414 COUNTY LOCATE WELL AND OUTLINE UNIT ON PERMIT NUMBER SECTION PLAT - 640 ACRES WY FREMONT WY2000-02141 SURFACE LOCATION DESCRIPTION 3N RANGE 1W SW %OF NE 1/4 SECTION LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Location 1600 ft. from (N/S) N Line of quarter section (see attachment) 1600 ft. from (E/W) E Line of guarter section WELL ACTIVITY TYPE OF PERMIT ☐ Brine Disposal N Individual ☐ Area Enhanced Recovery Number of Wells ☐ Hydrocarbon Storage TRIBAL E 30-T Lease Name 14-20-0258-06504 Well Number TUBING - CASING ANNULUS PRESSURE INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING) MAXIMUM PSIG MONTH YEAR AVERAGE PSIG BWIPD MINIMUM PSIG MAXIMUM PSIG 2010 1,406 1,466 99.007 3,194 Jan 0 2010 1,399 84,757 3,027 0 Feb 1,437 90,762 Mar 2010 1,380 1,455 2,928 0 2010 1,491 88,905 2,964 Apr 1,511 0 May 2010 1,390 1,500 81,541 2,630 0 2010 1,292 89,415 2,981 Jun 1,525 0 2010 121,276 3,912 Jul 1,209 1,390 0 91,238 Aug 2010 1.497 1,549 2.943 0 Sep 2010 1,457 1,600 93,695 3,123 0 75,914 2,449 Oct 2010 1,228 1,299 0 Nov 2010 893 918 61,083 2,036 0 66,338 2010 918 1,097 2,140 Dec NA=Not Available CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

R.P. Meabon

Regulatory Coordinator

SIGNATURE

DATE SIGNED

February 1, 2011

EPA Form 7520-11 (2-84)

U2 Entered

Initial

12



# **Water Analysis Report**

Field: Steamboat	Sample Date : 1/13/2010
County: Fremont	Formation : Nugget water
Location: E-5 Water Injection	Rock Type :
Lab ID: 10011404-02	Depth:

CATIONS	mg/l	meg/I	ANIONS	mg/I	meg/I
Potassium	66.8	1.71	Sulfate	2,865.6	59.66
Sodium	2,443.2	106.27	Chloride	1,895.3	53.46
Calcium	402.0	20.06	Carbonate	0.0	0.00
Magnesium	66.4	5.46	Bicarbonate	946.0	15.51
Iron	0.1	0.00	Bromide	0.0	0.00
Barium	nd	nd	Organic Acids	0.0	0.00
Strontium	nd	nd	Hydroxide	0.0	0.00
SUM +	2,978.5	133.50	SUM -	5,706.9	128.63

Solids			Sample Conditions		
Total Dissolved Solids @180°C	7,640	mg/l	pH, s.u. (Field)	7.48	5.U.
Total Solids, Calc less CO <sub>2</sub>	8,118	mg/l	Sample Pressure	14.70	psia
Total Solids, Calculated	8,212	mg/l	Mole% CO <sub>2</sub> , Gas	2.11	%
Total Solids, NaCl equivalents	6,343	mg/l	pH, s.u. (from CO <sub>2</sub> )	7.48	s.u.
Chloride as NaCl	3,124	mg/l	Surface Temp	70	oF.
NaCl% of Total Dissolved Solids	40.89	%	Downhole Temp	120	oF
Accuracy	-2.32	Sigma	Ionic Strength	0.175	μ
Dissolved Gases					

# Bisulfide ion, HS 141.5 mg/l Dissolved O<sub>2</sub>, aq Hydrogen Sulfide, H<sub>2</sub>S 51.5 mg/l Measured CO<sub>2</sub>, aq Total Sulfide 193.0 mg/l Calculated CO<sub>3</sub>, ac

193.0	mg/l	Calculated CO <sub>2</sub> , aq	123.0	mg/l
1,003.8	mg/l	Specific Gravity	1.009	measured
273.2	mg/l	Specific Gravity	1,006	calculated
	1,003.8	193.0 mg/l 1,003.8 mg/l 273.2 mg/l	1,003.8 mg/l Specific Gravity	1,003.8 mg/l Specific Gravity 1.009

Magnesium Hardness as CaCO3273.2 mg/lSpecific Gravity1.006 calculatedTotal Hardness as CaCO31,277.0 mg/lResistivity, 68°F0.969 ohm-cmHardness, grains74.36 grains/gallonConductivity 25°C10,320 μmhos/cm

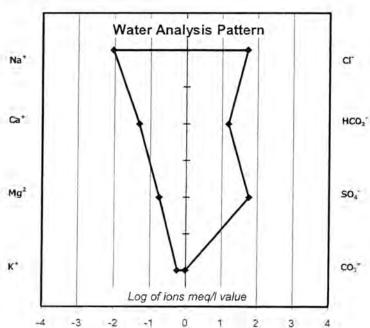
Microbiological Scaling Conditions

Sulfate Reducing	nd	
Aerobic Bacteria	nd	

Calcium Carbonate	CaCO <sub>3</sub> +	
Calcium Sulfate	CaSO <sub>4</sub>	
Barium Sulfate	BaSO <sub>4</sub> -	
Strontium Sulfate	SrSO, -	

0.0 ppb

123.0 mg/l



Probable	Mineral	Residue,	Dry
Calculation e		2 15 2	

Calculation error = -	3.0 %
COMPOUND	mg/l
Na2SO4	3,507.9
NaCl	3,124.3
Ca(HCO3)2	1,236.2
MgSO4	328.7
CaSO4	327.3

Radionuclides	Method	E903.0
---------------	--------	--------

Radium 226	N/A	pCi/L
R226 precision (±)	N/A	pCi/L
Radium 228	N/A	pCi/L
R228 precision (±)	N/A	pCi/L

Note: nd denotes	'Not Deterr	mined'	
Analyzed : Precision	Analysis	Approved	:MDCar
1-Sep-05	v951 Michael	D Camey	

# **Mechanical Integrity Test** Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW 999 18th Street, Suite 500 Denver, CO 80202-2466

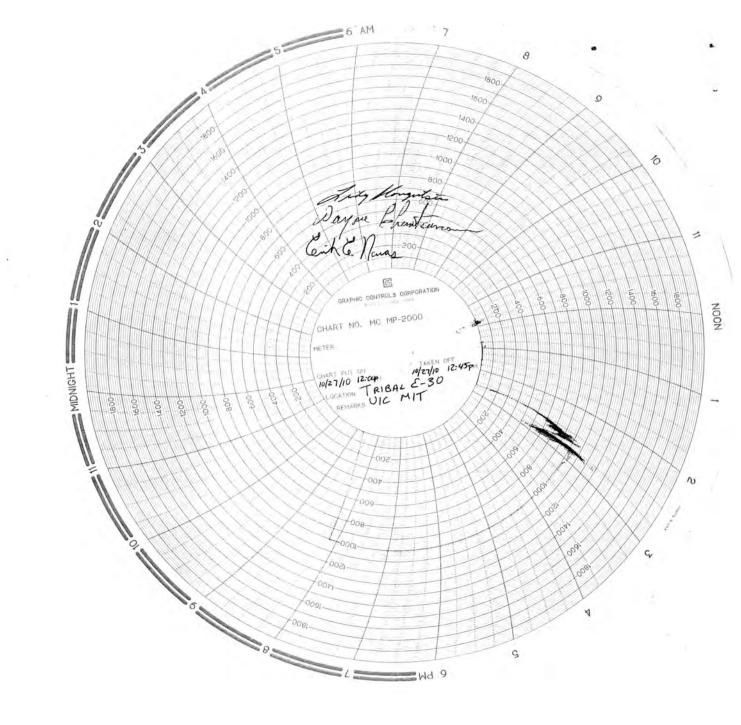
EPA Witness:		Date:1	0/_27/_2010	
Test conducted by: LINDY SHONGUTSING Others present: ERICK NAVAS (MOC			ISEN) (R+S	WELL STRUCES,
Well Name:         Tribal 'E' #30         (WY2000 - 02141)           Field:         STEAMBOAT           Location:         SW NE         Sec:         5         T 3N           Last MIT:         07         / 13         / 2005         Maxin	N/S R1V	V E/W County		
Is this a regularly scheduled test? [X] Yes [ Initial test for permit? [ ] Yes [		U2 Er	ntered 12/6/10	
Test after well rework? [ ] Yes [ Well injection during test? [X] Yes [		Initial Yes, rate:	7,493	bpd
Pre-test casing/tubing annulus pressure:	$\varphi$	_ psig		

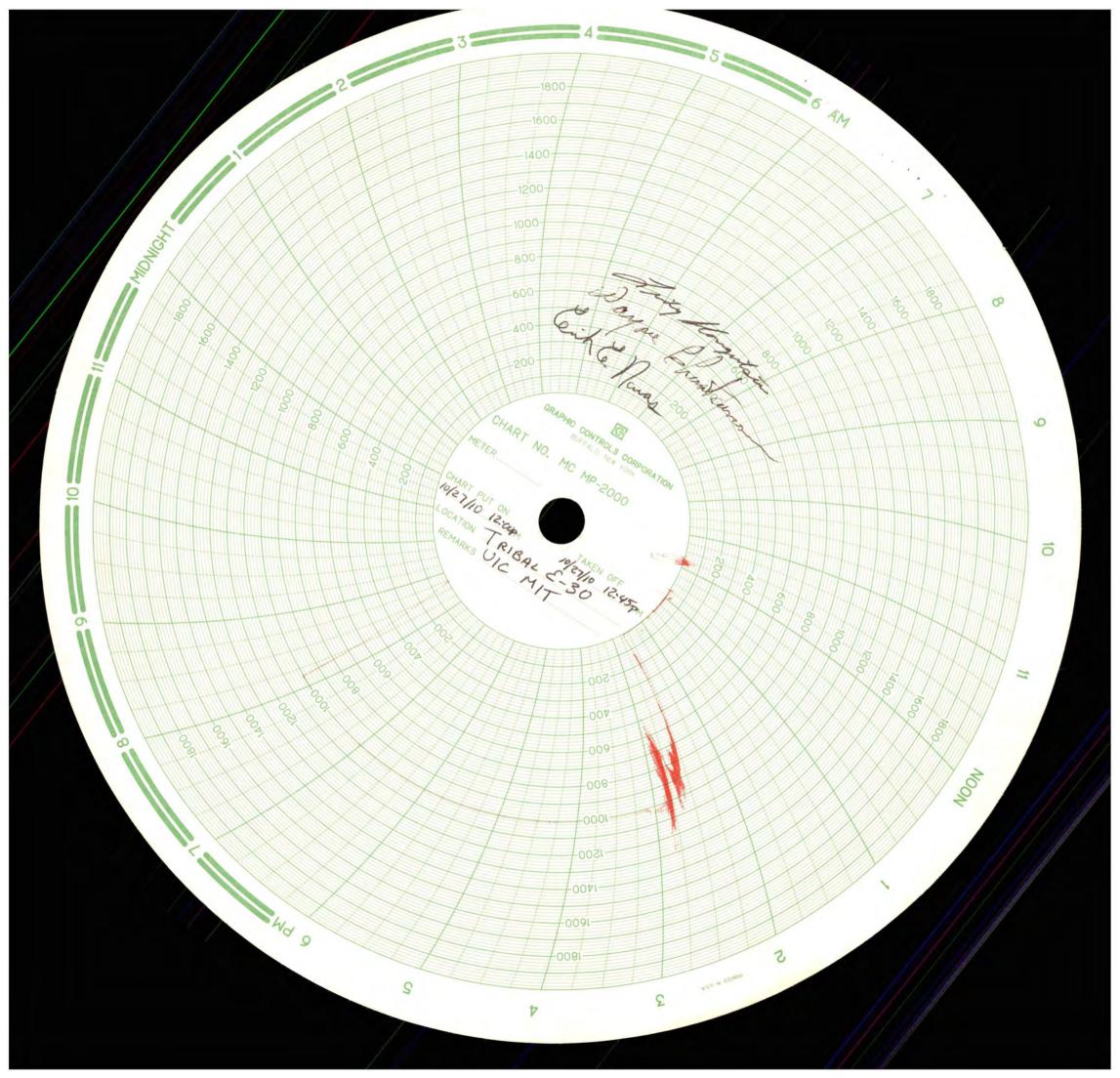
MIT DATA TABLE	TEST #1		TEST #2	TEST #3
TUBING	PRESSURE			
Initial Pressure	1, 100	psig	psig	psig
End of test pressure	1,100	psig	psig	psig
CASING / TUBING	ANNULU	J <b>S</b>	PRESSURE	
0 minutes	1,005	psig	psig	psig
5 minutes	1,005	psig	psig	psig
10 minutes	1,005	psig	psig	psig
15 minutes	1,005	psig	psig	psig
20 minutes	1,002	psig	psig	psig
25 minutes	1,002	psig	psig	psig
30 minutes	1,002	psig	psig	psig
minutes	1/	psig	psig	psig
minutes		psig	psig	psig
RESULTS	[V] Pass [	Fail	Pass     Fail	Pass     Fail

Does the annulus pressure build back up after the test? [	] Yes [V	] No	GREEN	BLUE	CBI
Page 1	of 2		TAB	2	(over)

## MECHANICAL INTEGRITY PRESSURE TEST

nature of Witness <u>:</u>	Eich E. Maray Saly Margation,
The state of the state of	Y-COMPLIANCE FOLLOW-UP
FICE USE ONL	Y – COMPLIANCE FOLLOW-UP
FICE USE ONL	Y – COMPLIANCE FOLLOW-UP  Date: / /
FICE USE ONLY f:	Y – COMPLIANCE FOLLOW-UP  Date: / / reported test results? [ ] YES [ ] NO
f:	Y - COMPLIANCE FOLLOW-UP  Date: / / reported test results? [ ] YES [ ] NO
f:	Y - COMPLIANCE FOLLOW-UP  Date: / / reported test results? [ ] YES [ ] NO  ified? [ ] YES [ ] NO
f:	Y – COMPLIANCE FOLLOW-UP  Date: / / reported test results? [ ] YES [ ] NO  ified? [ ] YES [ ] NO
FICE USE ONLY  f:  you agree with the report, why?  sible violation ident  ES, what:  YES, follow-up init	Y - COMPLIANCE FOLLOW-UP  Date: / / reported test results? [ ] YES [ ] NO  ified? [ ] YES [ ] NO







1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

November 16, 2010

Sarah Roberts Mail Code: 8ENF-UFO United States Environmental Protection Agency Region 8 1595 Wynkoop Street Denver, CO 80202-1129



RE: UIC Notice of Violations to Timely Demonstrate Mechanical Integrity (9 wells); Inaccurate Gauge; and Failure to Monitor Temporarily Abandoned Well in the Steamboat Butte and Circle Ridge Oilfields, Fremont County, WY

Dear Ms Roberts:

Marathon Oil Company is in receipt of your letter dated November 4, 2010 (attached) and submits the following information for your review:

#### Failure to Timely demonstrate Mechanical Integrity for 9 wells:

Attached please find the EPA Mechanical Integrity Test for the following wells:

- 1) Shoshone 65-29 WY2000-02173
- 2) Tribal E' # 30 WY2000-02141 (additional well tested)
- 3) Tribal 'C' # 28 WY2825-04382
- 4) Tribal 'E' # 26 WY02839-02129
- 5) Shoshone 65-26 WY2000-02171
- 6) Shoshone 65-70 WY02708-02176
- Shoshone 65-12 WY2000-02167
- 8) Shoshone 63-44 WY2000-02155
- 9) Shoshone 65-28 WY02710-02172
- 10) Shoshone 65-33 WY02707-02174 (additional well tested)

to the EPA and the BLM prior to initiating any work on this well.

Shoshone 65-40 - This well was one the list which accompanied your letter dated November 4, 2010. During a routine MIT pre-test, Shoshone 65-40 failed to maintain the required pressure and was shut-in on October 25, 2010. Additional tests were attempted to insure that the correct procedures were utilized and the well remains shut-in until such time the downhole equipment can be pulled and examined. Marathon will submit a plan

GREEN

V

CBI

#### Brinkerhoff#4

During the EPA routine inspection on October 19, 2010, Brinkerhoff # 4, currently a temporarily abandoned well was not being monitored as required by EPA rules. Marathon has added this well to the weekly monitoring list.

#### Inaccurate Gauge

The gauge which was observed on the Tribal 'S' # 1 well during the field inspection is placed on the well for observation purposes only. The gauge remains on the well and is checked daily as a reference for any pressure changes. The field operators utilize a separate calibrated gauge (calibrated quarterly) for recording and reporting purposes.

Marathon Oil Company is fully committed to complying with all rules and regulations and is reviewing the processes in place to insure that the compliance issues noted in your letter dated November 4, 2010 are properly addressed and do not occur in the future.

Thank you for your patience and assistance concerning this matter. If we may answer any questions or be of any further assistance, please feel free to contact this office.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon
Regulatory Coordinator
Rocky Mountain Operations

307-527-2133

Form Approved. OMB No 2000-0042. Approval expires 9-30-86 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT NAME AND ADDRESS OF EXISTING PERMITTEE NAME AND ADDRESS OF SURFACE OWNER MARATHON OIL COMPANY JOINT BUSINESS COUNCIL 1501 STAMPEDE AVENUE P.O. BOX 217 FORT WASHAKIE, WY 82514 CODY, WYOMING 82414 LOCATE WELL AND OUTLINE UNIT ON COUNTY-STATE PERMIT NUMBER SECTION PLAT - 640 ACRES WY FREMONT WY2000-02141 SURFACE LOCATION DESCRIPTION 1/4 OF TOWNSHIP SW % OF NE 1/4 SECTION 3N RANGE 1W LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT X Location ft. from (N/S) N Line of quarter section (see attachment) 1600 ft. from (E/W) E Line of quarter section E W WELL ACTIVITY TYPE OF PERMIT ☐ Brine Disposal Individual M Enhanced Recovery ☐ Area Number of Wells ☐ Hydrocarbon Storage TRIBAL E 30-T 14-20-0258-06504 Lease Name Well Number TUBING - CASING ANNULUS PRESSURE INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING) MONTH YEAR AVERAGE PSIG MAXIMUM PSIG BBL BWIPD MINIMUM PSIG MAXIMUM PSIG Jan 2009 1,309 1,350 80,411 2,594 0 84.876 Feb 2009 1,294 3,031 1,350 0 Mar 2009 1,175 1,300 102,830 3,317 0 2009 85.239 2.841 1,090 1,100 0 Apr 1,017 79,953 2,579 May 2009 1,050 0 Jun 2009 1,005 1,025 81,466 2,716 0 2009 87,946 2.837 Jul 969 1,000 0 96,545 2009 1,085 3,114 0 Aug 1,416 2009 1,353 1,450 90,172 3,006 Sep 0 2009 102,999 3,323 Oct 1.443 1,450 0 2009 1,430 90,531 3,018 Nov 1,475 0 103,527 3.340 Dec 2009 1,430 1,466 0 NA=Not Available CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) R.P. Meabon Regulatory Coordinator

SIGNATURE

DATE SIGNED

February 1, 2010

EPA Form 7520-11 (2-84)

100	BULE	OREEN
	2	=
	2	3

U2 Entered



## **Water Analysis Report**

Field : Circle Ridge	Sample Date : 2/1/2010
County : Fremont	Formation :
Location : Circle Ridge Water Injection	Rock Type :
Lab ID: 10020103-01	Depth:

CATIONS	mg/l	meq/I	ANIONS	mg/l	meg/I
Potassium	11.4	0.29	Sulfate	63,4	1.32
Sodium	70.0	3.05	Chloride	28.7	0.81
Calcium	133.2	6.65	Carbonate	0.0	0.00
Magnesium	45.4	3.74	Bicarbonate	487.0	7.98
Iron	0.0	0.00	Bromide	0.0	0.00
Barium	1.6	0.02	Organic Acids	0.0	0.00
Strontium	4.4	0.10	Hydroxide	0.0	0.00
SUM +	266.0 :::	13.85	SUM -	579.1	10.11

Solids			Sample Conditions		
Total Dissolved Solids @180°C	642	mg/l	pH, s.u. (Field)	7.03	s.u.
Total Solids, Calc less CO <sub>2</sub>	553	mg/l	Sample Pressure	14.70	psia
Total Solids, Calculated	602	mg/l	Mole% CO2, Gas	1.67	%
Total Solids, NaCl equivalents	451	mg/l	pH, s.u. (from CO <sub>2</sub> )	7.39	s.u.
Chloride as NaCl	47	mg/l	Surface Temp	70	oF
NaCl% of Total Dissolved Solids	7.37	%	Downhole Temp	120	ot
Accuracy	-14.21	Sigma	Ionic Strength	0.018	· µ

Dissolved Gases					
Bisulfide ion, HS	nd	Dissolved O2, aq	0.0 p	ppb	
Hydrogen Sulfide, H <sub>2</sub> S	nd	Measured CO2, aq	r	nd	
Total Sulfide	nd	Calculated CO <sub>2</sub> , an	24.6 r	ma/I	

**Other Properties** 

Calcium Hardness as CaCO <sub>3</sub>	332.6 mg/l	Specific Gravity	1.003 measured
Magnesium Hardness as CaCO <sub>3</sub>	187.4 mg/l	Specific Gravity	1.001 calculated
Total Hardness as CaCO <sub>3</sub>	520.0 mg/l	Resistivity, 68°F	9.506 ohm-cm
Hardness, grains	30.28 grains/gallon	Conductivity 25°C	1,052 µmhos/cm

Microbiological Scaling Conditions

Sulfate Reducing	nd	Calcium Carbonate
Aerobic Bacteria	nd	Calcium Sulfate
		Barium Sulfate

N	later Analysis Pattern	
Na <sup>+</sup>		cr
Ca+	$\langle + \rangle$	HCO³.
Mg²		SO <sub>4</sub>
к*	1	- CO <sub>3</sub> *

Log of ions meg/l value

Drobah	la M	linoral	Residue.	Dne
Probab	ie r	ıınerai	Residue.	DIV

CaCO<sub>3</sub> +

BaSO<sub>4</sub> +

SrSO<sub>4</sub> -

CaSO<sub>4</sub> - -

Calculation error =	-3/ %
COMPOUND	mg/l
Ca(HCO3)2	538.7
Mg(HCO3)2	88.2
MgSO4	72.0
MgCl2	38.5
SrSO4	9.2
BaSO4	2.7

Strontium Sulfate

Radionuclides	Method	E903.0
---------------	--------	--------

Radium 226	nd
R226 precision (±)	nd
Radium 228	nd
R228 precision (±)	nd

Note: nd	denotes	'Not Deterr	nined'	
Analyzed	:Precision	Analysis	Approved	:MDCarr
1-Sep-05		v951 Michael	D Carney	

Form Approved. OMB No 2000-0042. Approval expires 9-30-86 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY SEPA WASHINGTON, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT NAME AND ADDRESS OF SURFACE OWNER NAME AND ADDRESS OF EXISTING PERMITTEE MARATHON OIL COMPANY JOINT BUSINESS COUNCIL 1501 STAMPEDE AVENUE P. O. BOX 217 FORT WASHAKIE, WY 82514 CODY, WYOMING 82414 LOCATE WELL AND OUTLINE UNIT ON COUNTY STATE PERMIT NUMBER SECTION PLAT -- 640 ACRES WY2000-02141 WY FREMONT SURFACE LOCATION DESCRIPTION 1/4 OF 3N RANGE 1W SW %OF NE 1/4 SECTION TOWNSHIP LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT X Location 1600 ft. from (N/S) N Line of quarter section (see attachment) Line of quarter section W WELL ACTIVITY TYPE OF PERMIT ☐ Brine Disposal Individual M Enhanced Recovery ☐ Area Number of Wells Hydrocarbon Storage TRIBAL E 30-T 14-20-0258-06504 Lease Name Well Number TUBING - CASING ANNULUS PRESSURE INJECTION PRESSURE TOTAL VOLUME INJECTED (OPTIONAL MONITORING) MONTH YEAR **AVERAGE PSIG** MAXIMUM PSIG BBL **BWIPD** MINIMUM PSIG MAXIMUM PSIG 2008 42,696 1,377 833 1,009 Jan 0 2008 35,914 1.238 Feb 831 875 0 Mar 2008 1,155 1.325 56,783 1,832 0 60,500 2,017 Apr 2008 966 1,225 0 84,284 2008 811 825 2,719 0 May 84,476 Jun 2008 849 900 2,816 0 2008 825 930 80,610 2,600 Jul 0 2008 913 950 80.044 2.582 0 Aug Sep 2008 960 1,000 74,981 2.499 0 Oct 2008 813 1,000 70,833 2,285 0 Nov 2008 854 98,986 3,300 875 0 2008 1.365 1,400 86,947 2.805 Dec 0 NA=Not Available CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for

obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

R.P. Meabon

Regulatory Coordinator

SIGNATURE

DATE SIGNED

February 2, 2009

EPA Form 7520-11 (2-84)





RESEMPTED FEB 1 0 2009

Office of Lawy Compliance & Evironmental Institute



1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

February 5, 2008

US Environmental Protection Agency, Region 8 1595 Wynkoop Street Denver, Colorado 80202 Attention: Mr. Nathan Wiser Mail Code 8ENF-UFO

RE: 2008 Annual Reports Steamboat Butte Field Circle Ridge Field Wind River Indian Reservation RECEIVED

FEB 1 0 2009

Office of Emergement
Compliance & Evironmental Justice

Dear Mr. Wiser,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact me at the above address or phone (307)527-2133.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon Regulatory Coordinator Rocky Mountain Operations 307-527-2133

RPM/rpm Annua2003.doc Attachments

CC CFR, RPM, Steamboat Field File



### QA/QC Summary Report

Client: Marathon Oil Company
Project: Wind River Reservation UIC Program

Report Date: 12/29/08 Work Order: C08120061

Analyte	Result Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B					Analytic	al Run:	ORION555A	_081202A
Sample ID: ICV2 081202 1	Initial Calibration Verifi	cation Standard					12/0	2/08 13;20
Conductivity	1430 umhos/cr	n 1.0	101	90	110			
Method: A2510 B					Ва	atch: 08	1202_1_PH-	W_555A-1
Sample ID: MBLK1_081202_1	Method Blank			Run: ORIO	N555A_081202	A	12/0	2/08 13:17
Conductivity	0.8 umhos/cr	n 0.2						
Sample ID: C08120061-001ADUP	Sample Duplicate			Run: ORIC	N555A_081202	A	12/0	2/08 13:48
Conductivity	1100 umhos/cr	n 1.0				0.1	10	
Sample ID: C08120061-003ADUP	Sample Duplicate			Run: ORIC	N555A_081202	A	12/0	2/08 13:55
Conductivity	10600 umhos/cr	n 1.0				0.4	10	
Method: A2540 C					В	atch: 08	1203_1_SLE	S-TDS-W
Sample ID: MBLK1_081203	Method Blank			Run: BAL-	1_081203B		12/0	3/08 10:42
Solids, Total Dissolved TDS @ 180 C	ND mg/L	6						
Sample ID: LCS1 081203	Laboratory Control Sar	mple		Run: BAL-	1_081203B		12/0	3/08 10:42
Solids, Total Dissolved TDS @ 180 C	984 mg/L	10	98	90	110			
Sample ID: C08120049-001AMS	Sample Matrix Spike			Run: BAL-	1_081203B		12/0	3/08 10:43
Solids, Total Dissolved TDS @ 180 C	2200 mg/L	10	100	90	110			
Sample ID: C08120049-001AMSD	Sample Matrix Spike D	uplicate		Run: BAL-	1_081203B		12/0	3/08 10:43
Solids, Total Dissolved TDS @ 180 C	2200 mg/L	10	99	90	110	0.2	10	
Sample ID: C08120088-001AMS	Sample Matrix Spike			Run: BAL-	1_081203B		12/0	3/08 10:48
Solids, Total Dissolved TDS @ 180 C	16800 mg/L	10	101	90	110			
Sample ID: C08120088-001AMSD	Sample Matrix Spike D	Ouplicate		Run: BAL-	1_081203B		12/0	3/08 10:48
Solids, Total Dissolved TDS @ 180 C	16700 mg/L	10	99	90	110	0.7	10	



#### ANALYTICAL SUMMARY REPORT

December 29, 2008

Marathon Oil Company 1501 Stampede Ave Cody, WY 82414

Workorder No.: C08120061

Project Name: Wind River Reservation UIC Program

Energy Laboratories, Inc. received the following 3 samples for Marathon Oil Company on 12/2/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08120061-001	Circle Ridge	12/01/08 13:15	5 12/02/08	Aqueous	Conductivity Specific Gravity Solids, Total Dissolved
C08120061-002	C-1 Steamboat Butte	12/01/08 14:00	12/02/08	Aqueous	Same As Above
C08120061-003	E-5 Steamboat Butte	12/01/08 14:15	12/02/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: Stohanie Waldrage



Client: Marathon Oil Company

Project: Wind River Reservation UIC Program

Lab ID: C08120061-001

Client Sample ID: Circle Ridge

Sampled By: Not Provided

Report Date: 12/29/08

Collection Date: 12/01/08 13:15

Date Received: 12/02/08

Matrix: Aqueous

				MCL/		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES						
Conductivity	1100	umhos/cm		1	A2510 B	12/02/08 13:46 / dd
Solids, Total Dissolved TDS @ 180 C	636	mg/L		10	A2540 C	12/03/08 10:45 / dd
Specific Gravity 60/60F	1.000	g/cc			Calculation	12/07/08 12:51 / sec



Client: Marathon Oil Company

Report Date: 12/29/08

Project: Wind River Reservation UIC Program

Collection Date: 12/01/08 14:00

Lab ID: C08120061-002

Date Received: 12/02/08

Client Sample ID: C-1 Steamboat Butte

Matrix: Aqueous

Sampled By: Not Provided

				MCL/		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES						
Conductivity	7090	umhos/cm		1	A2510 B	12/02/08 13:51 / dd
Solids, Total Dissolved TDS @ 180 C	4920	mg/L		10	A2540 C	12/03/08 10:46 / dd
Specific Gravity 60/60F	1.003	g/cc			Calculation	12/07/08 12:51 / sec



Client: Marathon Oil Company

Report Date: 12/29/08

Project: Wind River Reservation UIC Program

Collection Date: 12/01/08 14:15

Lab ID: C08120061-003

Date Received: 12/02/08

Client Sample ID: E-5 Steamboat Butte

Matrix: Aqueous

Sampled By: Not Provided

				MCL/			
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By	
PHYSICAL PROPERTIES							
Conductivity	10700	umhos/cm		9	A2510 B	12/02/08 13:53 / dd	
Solids, Total Dissolved TDS @ 180 C	7590	mg/L		10	A2540 C	12/03/08 10:46 / dd	
Specific Gravity 60/60F	1.005	g/cc			Calculation	12/07/08 12:51 / sec	





#### STATES ENVIRONMENTAL PROTECTION AGE

WASHINGTON, DC 20460

#### ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

G PERMITTEE	IAME AND ADDRESS (
THON OIL COMPANY	
STAMPEDE AVENUE	
V WYOMING 82414	

NAME AND ADDRESS OF SURFACE OWNER JOINT BUSINESS COUNCIL P.O. BOX 217

FORT WASHAKIE, WY 82514

LOCAT	CTION			思いる ひかり	1.717
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				OIL I	COLUMN	LL, WI GE	214		
STATE WY	COUNTY	FRE	MONT			PERMIT NUM		-02141	
SURFACE LOC	CATION DESCRIP	TION							
Y4	OF SW	1/4 OF	NE 1/48	SECTION	5	TOWNSHIP	3N	RANGE	1W
Surface Location	IN TWO DIRECT	TONS FROM N				SECTION AND I	3 3 - 0	2.4	
	1600 ft. from			e of quarte		diter section (s	ee allac	meny	
Brine Disp		☐ Ar	lividual	E OF PERM	ЛІТ	TRIDAL	7.20.7		
A Comment	11 20 025	0.0004				TRIBAL I	2 30-1		
Lease Name	14-20-025	5-06504		Well N	umber				

	INJECTION PRESSURE		PRESSURE	TOTAL VOLUM	ME INJECTED	TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)		
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIG	
Jan	2007	1,259	1,304	72,563	2,341		0	
Feb	2007	1,312	1,400	68,124	2,433		0	
Mar	2007	1,237	1,302	62,148	2,005		0	
Apr	2007	1,155	1,300	58,728	1,958		0	
May	2007	1,149	1,202	65,789	2,122		0	
Jun	2007	1,165	1,204	63,511	2,117		0	
Jul	2007	1,050	1,152	62,432	2,014		0	
Aug	2007	789	943	57,717	1,862		0	
Sep	2007	982	1,101	57,210	1,907		0	
Oct	2007	948	1,062	61,289	1,977		0	
Nov	2007	975	1,048	53,725	1,791		0	
Dec	2007	879	882	47,478	1,532		0	

NA=Not Available

#### CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

R.P. Meabon Regulatory Coordinator

January 14, 2008

EPA Form 7520-11 (2-84)

FEB 0 8 2008

Office 2 St. 40.



Client: Marathon Oil Co Report Date: 10/26/07

Project: Wind River Reservation UIC Program

Collection Date: 10/15/07 15:10

Lab ID: C07100818-001

Date Received: 10/16/07

Client Sample ID: Steamboat Butte Water Inj. Plant

Matrix: Aqueous

Sampled By: CR

		Qual	MCL/ RL QCL		
Result	Units			Method	Analysis Date / By
1.005	g/cc		0.001	Gravimetric	10/23/07 13:42 / cjs
6540	umhos/cm		1.0	A2510 B	10/16/07 14:53 / jf
4510	mg/L		10	A2540 C	10/17/07 13:38 / bas
	1.005 6540	1.005 g/cc 6540 umhos/cm	1.005 g/cc 6540 umhos/cm	Result         Units         Qual         RL QCL           1.005         g/cc         0.001           6540         umhos/cm         1.0	Result         Units         Qual         RL QCL         Method           1.005         g/cc         0.001         Gravimetric           6540         umhos/cm         1.0         A2510 B

FEB 0 8 2008

Office & Emotrement Compliance & Environmental Justice



1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

- EIVED

2008

February 5, 2008

US Environmental Protection Agency, Region 8 1595 Wynkoop Street Denver, Colorado 80202 Attention: Mr. Nathan Wiser Mail Code 8ENF-UFO

RE: 2007 Annual Reports
Steamboat Butte Field
Circle Ridge Field
Wind River Indian Reservation

Dear Mr. Wiser,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact me at the above address or phone (307)527-2133.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon Regulatory Coordinator Rocky Mountain Operations 307-527-2133

RPM/rpm Annua2003.doc Attachments

CC: CFR, RPM, Steamboat Field File



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

January 11, 2008

Ref: 8ENF-UFO

Mr. Randy Meabon Regulatory Coordinator Marathon Oil Company 1501 Stampede Ave., P.O. Box 2690 Cody, WY 82414

Re: UNDERGROUND INJECTION CONTROL (UIC)
Courtesy Reminder to Submit Annual Injection
Well Monitoring Report and Fluid Analysis;
Note of Change of EPA Address

Dear Mr. Meabon:

The purpose of this letter is to again to remind Class II injection well operators about their annual reporting requirements, and to inform all Class II injection well operators about our new mailing address.

First, this is courtesy reminder to all Class II injection well operators to comply with certain annual reporting requirements. Specifically, I am reminding you to submit your annual monitoring reports, and as applicable, a chemical analysis of injected fluids. Enclosed is a blank annual monitoring report form and accompanying instructions. This form is also on-line at the EPA UIC program's newly updated website <a href="http://www.epa.gov/safewater/uic/index.html">http://www.epa.gov/safewater/uic/index.html</a>. If required by permit, please remember to submit a chemical analysis representative of fluid injected during 2007 unless no injection occurred during 2007. The due date for submission of annual monitoring reports, and as applicable, chemical analyses is February 15, 2008.

As in years past, this letter is being sent to operators under the jurisdiction of the U.S. EPA Region 8 program as a courtesy. Given possible reduction in resources in the future, this courtesy reminder letter may not be possible, but would not affect your duty to comply with these requirements.

**Second**, EPA Region 8 is pleased to announce the relocation of our Regional Headquarters Office to our new downtown Denver facility. The Regional moved to this new office building effective January 2007. Please make note that all mail, FedEx and UPS shipments should be sent to our new physical street and mailing address:

#### US EPA Region 8 1595 Wynkoop Street Denver, CO 80202-1129.

Failure to comply with a UIC permit or the UIC regulations found at 40 CFR Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 CFR Part 22.

If you have any questions about matters raised in this letter, please feel free to contact Nathan Wiser of my staff at (303) 312-6211. The fax number for the UIC Program's Technical Enforcement Program has been changed to (303) 312-6953.

Sincerely,

- Mark A.R. Chalfant

Director

Technical Enforcement Program

Jimst Osy

Enclosures:

- 1. Blank Form 7520-11 (Annual Disposal/Injection Well Monitoring Report)
- 2. Instructions for Class II well reporting
- 3. Print out of injection wells from EPA's UIC database for Class II operators

#### **ENCLOSURE - Instructions for Class II Well Reporting**

This enclosure is accompanied by a recent print-out from EPA's Region 8 UIC database displaying the Marathon Oil Company injection wells to which the reporting requirements generally apply. There may be additional reporting requirements established in an existing UIC permit. If so, then you must also follow those UIC permit requirements. While meant to be helpful and complete, this print-out may not reflect each and every injection well for which Marathon Oil Company is responsible.

# Instructions for Completing EPA Form 7520-11 (Annual Disposal/Injection Well Monitoring Report)

- Complete a separate form for each well, and write the EPA permit/ID number on each.
- A form must be submitted for any injection well with an unplugged status at any point during the reporting period (calendar year 2007), including those wells which may have been transferred to or from another company at some point during the reporting period. This specifically includes injection wells that have not been used for injection but once were.
- 3. When completing this form, insert only actual numeric values into the columns, rather than leaving them blank. Do not use marks like "-" or "\*" to substitute for the value zero. A well that has been temporarily abandoned must still be periodically observed and pressure and rate values recorded.
- 4. All monthly values must be filled in and must be actual observed values. Further, please report the maximum observed injection pressure, not just the average injection pressure, for each month in the reporting period. Injection well permits will dictate whether you must submit observations of annulus pressures.
- Each completed form must be signed and dated.
- The due date for annual monitoring reports is February 15, 2008.

#### Instructions for Submitting a Chemical Analysis (There is no EPA form for this)

- 1. If required by permit and if there was fluid injected during 2007, a chemical analysis representative of fluid injected during 2007 must be submitted. Permit conditions typically require an analysis for at least pH, total dissolved solids, specific conductivity and specific gravity. Check your UIC permit(s) for further information. Include the EPA permit/ID number(s) with each applicable analysis.
- 2. The due date for chemical analysis reports is February 15, 2008.

Send all reporting to the following address:

ED STATES ENVIRONMENTAL PROTECTION AC

Manager Carried	ADDRESS OF	EXISTING PERMITTEE.		N/	AME AND ADDRESS OF SU	RFACE OWNER	
	1	MARATHON OIL	COMPANY		JOINT	BUSINESS COL	NCIL
		1501 STAMPEDE	AVENUE			P. O. BOX 217	
		CODY, WYOMI			FORT	WASHAKIE, WY	
		D OUTLINE UNIT ON - 640 ACRES	STATE	COUNTY		11	NUMBER
-			WY		FREMONT		WY2000-02141
1		N	Land Control of the C	ATION DESCRIPTION			a lat. Substants
			1/4 (	011			MAN 0000000
1 - 1			LOCATE WELL	IN TWO DIRECTIONS	FROM NEAREST LINES OF	QUARTER SECTION A	ND DRILLING UNIT
			Surface				
	11	X	Location		from (N/S) N	Line of quarter section	n (see attachment)
	i i		and 1	600 ft. from (E/W)	E Line of qua	rter section	
w	<del>- i - i -</del>		E				
			WEL	LACTIVITY	TYPE OF PE	RMIT	
	4.4		Brine Dispo	osal	1ndividual		
-	111-	-+-+-	Enhanced i	Recovery	☐ Area		
11	手儿	LIL B	☐ Hydrocarbo	on Storage	Number of Wells		
1 1	4.5	1 1 1 1	A CONTRACT OF THE PARTY OF THE				
1 - 1		the transfer				TRIBA	L E 30-T
	L L	S	Lease Name	14-20-0258-065	504 Well		L E 30-T
		s + + +	Lease Name	14-20-0258-065	504 Well	TRIBA	L E 30-T
	1 1	s	Lease Name		004 Well	Number TUBING - CASIN	IG ANNULUS PRESSURE
MONTH	YEAR	s			STATES N	Number TUBING - CASIN	IG ANNULUS PRESSURE
MONTH Jan	YEAR 2006	INJECTION	PRESSURE	TOTAL V	OLUME INJECTED	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE
7	1 21 90 W C F	INJECTION  AVERAGE PSIG	PRESSURE  MAXIMUM PSIG	TOTAL V	OLUME INJECTED BWIPD	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE IAL MONITORING) MAXIMUM PSIG
Jan	2006	INJECTION  AVERAGE PSIG  1,341	PRESSURE  MAXIMUM PSIG  1,520	78,649 71,422 77,239	OLUME INJECTED  BWIPD  2,537	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE IAL MONITORING) MAXIMUM PSIG
Jan Feb	2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364	PRESSURE  MAXIMUM PSIG  1,520  1,385	TOTAL V BBL 78,649 71,422	DLUME INJECTED  BWIPD  2,537  2,551	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG
Jan Feb Mar	2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410	78,649 71,422 77,239	DLUME INJECTED    BWIPD   2,537   2,551   2,492	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE (IAL MONITORING)  MAXIMUM PSIG  0  0 0
Jan Feb Mar Apr	2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441	78,649 71,422 77,239 101,911	DLUME INJECTED  BWIPD  2,537  2,551  2,492  3,397	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0
Jan Feb Mar Apr May	2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441	78,649 71,422 77,239 101,911 80,342	DLUME INJECTED  BWIPD  2,537  2,551  2,492  3,397  2,592	Number TUBING - CASIN (OPTION	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0  0  0
Jan Feb Mar Apr May Jun	2006 2006 2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126  1,135	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441  1,170	78,649 71,422 77,239 101,911 80,342 61,182	DLUME INJECTED  BWIPD  2,537  2,551  2,492  3,397  2,592  2,039	TUBING - CASIN (OPTION MINIMUM PSIG	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0  0  0
Jan Feb Mar Apr May Jun Jul	2006 2006 2006 2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126  1,135  1,094	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441  1,170  1,224	78,649 71,422 77,239 101,911 80,342 61,182 70,281	BWIPD 2,537 2,551 2,492 3,397 2,592 2,039 2,267	TUBING - CASIN (OPTION MINIMUM PSIG	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0  0  0
Jan Feb Mar Apr May Jun Jul Aug	2006 2006 2006 2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126  1,135  1,094  1,051	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441  1,170  1,224  1,212	78,649 71,422 77,239 101,911 80,342 61,182 70,281 65,617	BWIPD 2,537 2,551 2,492 3,397 2,592 2,039 2,267 2,117	TUBING - CASIN (OPTION MINIMUM PSIG	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0  0  0  0  1  7  0  0
Feb Mar Apr May Jun Jul Aug Sep	2006 2006 2006 2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126  1,135  1,094  1,051  1,052	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441  1,170  1,224  1,212  1,262	78,649 71,422 77,239 101,911 80,342 61,182 70,281 65,617 63,525	BWIPD 2,537 2,551 2,492 3,397 2,592 2,039 2,267 2,117 2,117	TUBING - CASIN (OPTION MINIMUM PSIG	IG ANNULUS PRESSURE IAL MONITORING)  MAXIMUM PSIG  0  0  0  0  0  0  1  7  0  0  0  0  0  0  0  0  0  0  0  0
Jan Feb Mar Apr May Jun Jul Aug Sep Oct	2006 2006 2006 2006 2006 2006 2006 2006	INJECTION  AVERAGE PSIG  1,341  1,364  1,384  1,284  1,126  1,135  1,094  1,051  1,052  1,219	PRESSURE  MAXIMUM PSIG  1,520  1,385  1,410  1,441  1,441  1,170  1,224  1,212  1,262  1,300	78,649 71,422 77,239 101,911 80,342 61,182 70,281 65,617 63,525 74,787	DLUME INJECTED  BWIPD  2,537  2,551  2,492  3,397  2,592  2,039  2,267  2,117  2,117  2,412	TUBING - CASIN (OPTION MINIMUM PSIG	IG ANNULUS PRESSURI (AL MONITORING)  MAXIMUM PSIC  0  0  0  0  0  0  0  0  0  0  0  0  0

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)
R.P. Meabon
Paralatam Canadiantes

SIGNATURE

DATE SIGNED

January 24, 2007

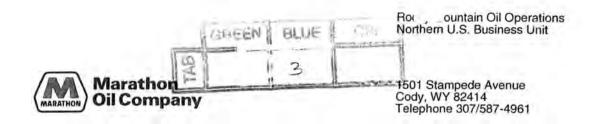
EPA Form 7520-11 (2-84)

RECEIVED

FEB 5 2007

Office of E.
Compliance & F

.



February 7, 2006

RECEIVED

FEB 14 2006

ECEJ-TEP

US Environmental Protection Agency, Region 8 999 18<sup>th</sup> Street, Suite 300 Denver, Colorado 80202 Attention: Mr. Nathan Wiser Mail Code 8ENF-UFO

RE: 2005 Annual Reports
Steamboat Butte Field
Circle Ridge Field
Wind River Indian Reservation

Dear Mr. Wiser,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact Mr. Randy Meabon at the above address or phone (307)527-2133.

U2 Entered
Date 3/14/oc
Initial XoP

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon

Regulatory Coordinator Rocky Mountain Operations

307-527-2133

RPM/rpm Annua2003.doc Attachments



FEB 14 2006

#### LABORATORY ANALYTICAL REPORT

ECEJ-TEP

Client: Marathon Oil Co

Project: Wind River Reservation UIC Program

Lab ID: C05120538-002

Client Sample ID: Steamboat Butte (SBB)

Report Date: 01/09/06

Collection Date: 12/12/05 12:50

Date Received: 12/13/05

Matrix: Aqueous

				MCL/		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES						
Conductivity	5230	umhos/cm		1.0	A2510 B	12/14/05 09:57 / jc
Specific Gravity 60/60F	0.998	g/cc		0.005	D1298	12/14/05 13:50 / dd
Solids, Total Dissolved TDS @ 180 C	3670	mg/L		10	A2540 C	12/14/05 15:16 / jc

ÞЕ	PA	ANNUAL D	W	IVIRONMENTAL ASHINGTON, DO ECTION W			REC	EIVEL
AME AND	ADDRESS OF	EXISTING PERMITTEE			NAME AND ADDRESS OF SUI	RFACE OWNER	S LEB	142
	1	MARATHON OIL	COMPANY		JOINT	BUSINESS	COUNCIL	
		1501 STAMPEDE	AVENUE			P.O. BOX	217-CE.	J-TE-
		CODY, WYOMI	NG 82414		FORT V	VASHAKII	E, WY 8251	4
		OUTLINE UNIT ON	STATE	COUNTY			PERMIT NUMB	ER
	SECTION PLAT	- 640 ACRES	WY		FREMONT		WY2	000-02141
		N	SURFACE LOCA	TION DESCRIPTIO	N			
			1/4 OF	SW V	OF NE % SECTION	5 T	OWNSHIP	3N RANGE 1
-+	$\rightarrow$	+++++	LOCATE WELL II	N TWO DIRECTION	S FROM NEAREST LINES OF	QUARTER SE	CTION AND DR	ILLING UNIT
	1 1		Surface					
	1 1	X	Location	1600 f	t. from (N/S)	Line of quart	er section (see	attachment)
-	-+-+-		- C	500 ft. from (E/W			or sautern (see	atta o miloniq
		1841	_	JOO JE HOM (EAR)	Enio or quan	ST SCOROTT		
W	100	EN BLUE	E OF MELL	ACTIVITY	TYPE OF PER	MIT		
15	112	CENT DLUE				VIVII I		
	역 !		Brine Dispos		M Individual □			
	1	11.13	☑ Enhanced R		Area Number of Wells			
			- Hydrocarbon	Storage	Number of Wells	_		
	= 3	injection		14-20-0258-00 TOTAL	VOLUME INJECTED	die sinds		ULUS PRESSUR
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	BWIPD		OPTIONAL MOI	MAXIMUM PSI
Jan	2005	1,048	980	59,319	1,914	WINVIIVIO	WIT GIO	0
Feb	2005	1,150	1,300	68,599	2,450			0
Mar	2005	1,500	1,500	84,972	2,741			0
Apr	2005	1,325	1,500	79,148	2,638	1		0
May	2005	1,500	1,560	75,445	2,434			0
Jun	2005	1,505	1,520	79,443	2,650			0
Jul	2005	1,534	1,550	83,114	2,681	1		0
								0
Aug	2005	1,567	1,580	51,796	1,671			
	2005	1,285	1,400	70,669 85,993	2,356			0
Sep	ZUU3 1	1,388	1,500 1,500		2,774			0
Sep			1 2000	84,330	2,811			0
Sep Oct Nov	2005	1,462						
Sep		1,480	1,600	79,831 NA=Not Avail	2,575			0

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

R.P. Meabon

Regulatory Coordinator

SIGNATURE

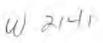
RP 1

DATE SIGNED

January 31, 2006

EPA Form 7520-11 (2-84)

U2 Entered
Date 3/22/06
Initial 70P





1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

RECEIVED

AUG 29 2005

ECEJ-TEP

August 24, 2005

US Environmental Protection Agency – Region VIII 999 18<sup>th</sup> Street – Suite 300 Attention: Mr. Ken Phillips, Mail Code 8ENF-UFO Denver CO 80202-2466

Certified Return Receipt

RE: MIT Corrections For: Steamboat Field and Circle Ridge Field Wind River Indian Reservation Fremont County, Wyoming

Dear Mr. Phillips,

Per our previous phone conversations, please find the attached corrected Mechanical Integrity Test forms for the above named fields.

The corrections for the tubing pressures meet the requirements set forth in EPA Region 8 Guidance # 39. As previously explained, the annulus pressures were mistakenly used in the place of the tubing pressures on the MIT form and the attached corrected forms identify the tubing pressure at the time of the pressure test.

Should you require more information, please contact R.P. Meabon at the above address or phone (307-527-2133).

MARATHON OIL COMPANY

R.P. Meabon

Regulatory Coordinator Rocky Mountain Operations

ec RPM Jeff Briggs "WRF"

# Mechanical Integrity 'acst Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:	Date: 7/13/2005
Test conducted by: Doy Creek Oil Fie	eld Services - (Chris Obrige
Others present: Allan Shaw - Muc	Ornis O'Bri
Well Name: Tribal 'E' #30 (WY2000 - 02141) Type	e: ER) SWD Status: AC) TA UC
Field: STEAMBOAT	
Location: SW NE Sec: 5 T 3N N/S R	IW E/W County: FREMONT State: WY
Last MIT: 03 / 23 / 2001 Maximum Allowab	le Pressure: 1830 PSIG
Is this a regularly scheduled test? [ ]Yes [ ] No	CORRECTED
Initial test for permit? [ ] Yes [ ] No	COPY
Test after well rework? [X] Yes [] No	
Well injection during test? [⋉] Yes [] No	If Yes, rate: 256 4 8 bpd
Pre-test casing/tubing annulus pressure:	psig
MIT DATA TABLE TEST #1	TEST #2 TEST #3

		To the design of the second of	
MIT DATA TABLE	TEST #1	TEST #2	TEST #3
TUBING_ of	<b>↑</b> PRESSURE	Date 911	Λ
Initial Pressure	1534 <del>/ 200</del> psi	g 1534 nitial psig	psig
End of test pressure	1534 psi	g psig	psig
CASING / TUBING	ANNULUS	PRESSURE	
19:52 0 minutes	/,000 psi	psig	psig
5 minutes	/000 psi	psig	psig
10 minutes	/000 psi	psig	psig
15 minutes	/000 psi	psig	psig
20 minutes	1,000 psi	psig	psig
25 minutes	/000 psi	psig	psig
10.22 30 minutes	/000 psi	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULTS	[X] Pass [ ] Fai	Pass Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test? [ ] Yes [X] No

# Mechanical Integrity '1 est Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW

999 18th Street, Suite 500 Denver, CO 80202-2466

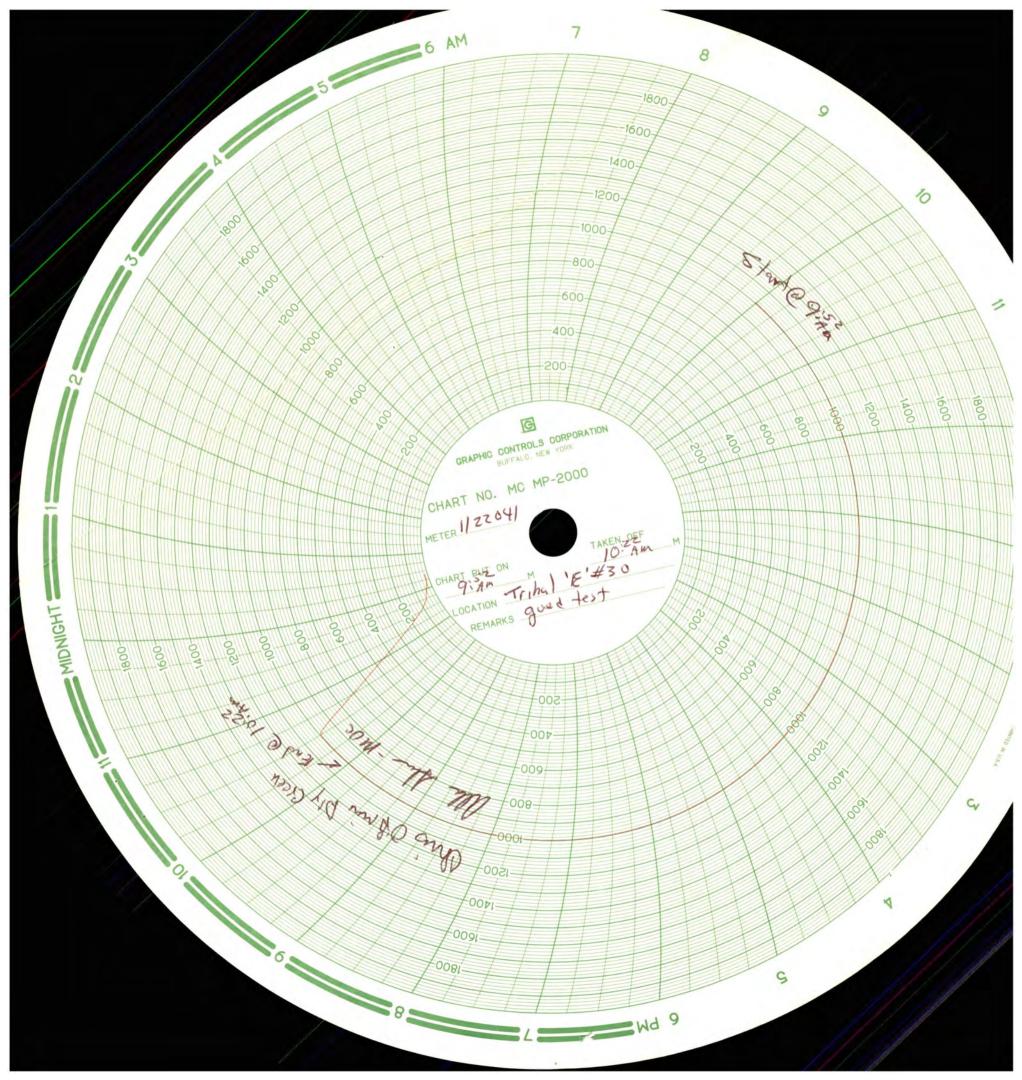
EPA Witness:	Date: 7 / 13 /	2005
Test conducted by: Dry Creek Oil Fiel	& Services - (C.	hris Obrian)
Others present: Allan Shaw - Moc	(S)	ris O'Brier
Well Name: Tribal 'E' #30 (WY2000 - 02141) Type: (	ER) SWD Status: AC	) TA UC
Field: STEAMBOAT		
Location: <u>SW NE</u> <u>Sec: 5</u> <u>T 3N N/S R 1W</u>	E/W County: FREMONT	State:_WY_
Last MIT: 03 / 23 / 2001 Maximum Allowable F	Pressure: 1830	PSIG
Is this a regularly scheduled test? [  Yes     No		
Initial test for permit?     Yes     No		
Test after well rework? [X   Yes [ ] No		
Well injection during test? [⋉   Yes   ] No If	Yes, rate: 2564.8	bpd

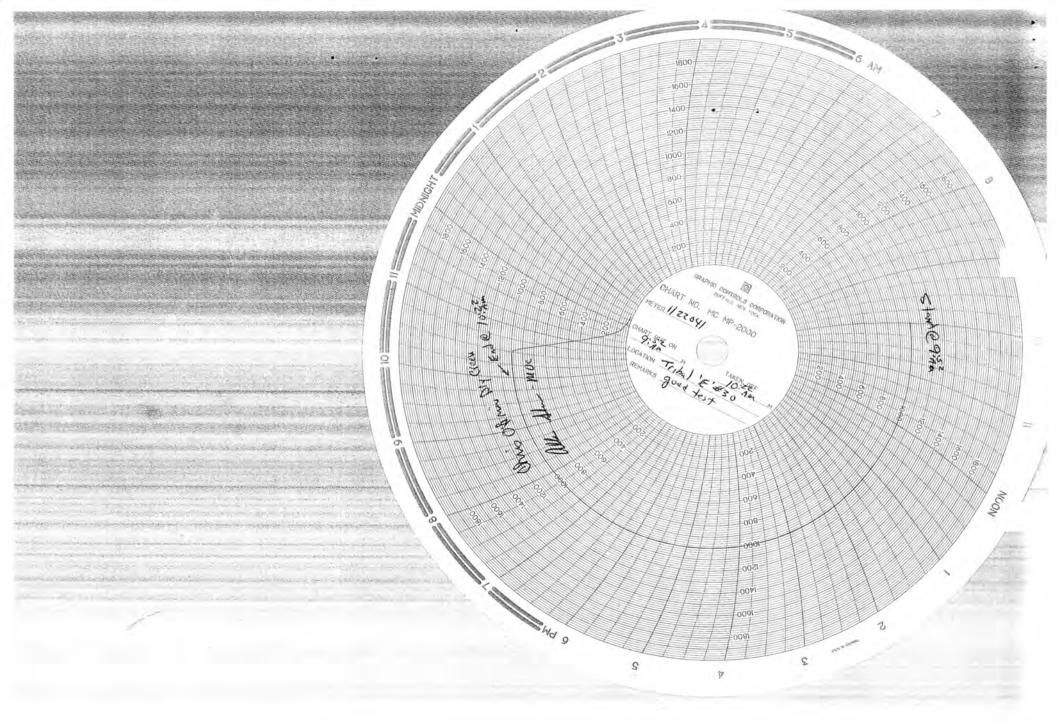
MIT DATA TABLE	TEST #1		TEST #2	TEST #3
TUBING	PRESSURE			
Initial Pressure	1,000	psig	psig	psig
End of test pressure	1,000	psig	psig	psig
CASING / TUBING	ANNULUS	3	PRESSURE	
19: 52 0 minutes	1,000	psig	psig	psig
5 minutes	1000	psig	psig	psig
10 minutes	1000	psig	psig	psig
15 minutes	1.000	psig	psig	psig
20 minutes	1000	psig	psig	psig
25 minutes	1000	psig	psig	psig
10.22 30 minutes	1000	psig	psig	psig
minutes	1	psig	psig	psig
minutes		psig	psig	psig
RESULTS	[X] Pass	Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fai

Does the annulus pressure build back up after the test? [ ] Yes [X] No

### MECHANICAL INTEGRITY PRESSURE TEST

All and a second	
	•
gnature of Witness:	
gnature of Witness <u>:</u> FFICE USE ONLY – COMPLIANCE I	
FFICE USE ONLY – COMPLIANCE I	
FFICE USE ONLY – COMPLIANCE I	FOLLOW-UP  Date: / /
FFICE USE ONLY – COMPLIANCE In the complete of	FOLLOW-UP  Date: / /
FFICE USE ONLY – COMPLIANCE I	FOLLOW-UP  Date: / /
FFICE USE ONLY – COMPLIANCE In off:	FOLLOW-UP  Date: / /
FFICE USE ONLY – COMPLIANCE In the complete of	FOLLOW-UP
FFICE USE ONLY – COMPLIANCE In the second of	FOLLOW-UP





RECEIVED

JAN 27 2005

ECEJ-TEP





1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

January 25, 2005

US Environmental Protection Agency, Region 8 999 18th Street, Suite 300 Denver, Colorado 80202 Attention: Mr. Nathan Wiser Mail Code 8ENF-UFO

RE: 2004 Annual Reports Steamboat Butte Field Circle Ridge Field Wind River Indian Reservation

Dear Mr. Wiser,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact Mr. Randy Meabon at the above address or phone (307)527-2133.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon Regulatory Coordinator Rocky Mountain Operations 307-527-2133

RPM/rpm Annua2003.doc Attachments



## Field Check pH Levels for Wind River Injection Samples

Steamboat Butte Injection	Plant
Date: 4/15/04	
Time: 10:05 AM	
pH meter calibrated with 7,0	_ buffer solution
by Col Kick	
рн: 6,6	

Circle Ridge Injection Plant

Date: 6/15/64

Time: 1:35 PM

pH meter calibrated with 7,0 buffer solution
by Charles

pH: 6.8



Client: Marathon Oil Company

Project: Wind River Reservation UIC Program

Lab ID: C04060766-001

Client Sample ID: Steamboat Butte Water Injection Plant

Report Date: 07/06/04

Collection Date: 06/15/04 10:05

Date Received: 06/17/04

Matrix: Aqueous

				MCL/		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES						
Conductivity	5920	umhos/cm		1.0	A2510 B	06/17/04 11:49 / dd
Solids, Total Dissolved TDS @ 180 C	4230	mg/L		10	A2540 C	06/17/04 15:41 / js
Specific Gravity 60/60F	1.003	g/cc		0.1	Calculation	07/06/04 14:32 / ks
FIELD PARAMETERS						
pH	6.6	s.u.			FIELD	06/15/04 10:05 / ks

SEPA

ITED STATES ENVIRONMENTAL PROTECTIC

ENCY

WASHINGTON, DC 20460

ANNUAL	DISPOSAL/I	NJECTION WEL	L MONITORING	REPORT

					ELL WONTOKIN			
NAME AND ADDRESS OF EXISTING PERMITTEE  MARATHON OIL COMPANY					NAME AND ADDRESS OF SURFACE OWNER			
	1					BUSINESS COUNC	ZIL	
		1501 STAMPED				P. O. BOX 217	5.7	
100		CODY, WYOM		Loouver	FORTV	ASHAKIE, WY 82		
		D OUTLINE UNIT ON T 640 ACRES	STATE	COUNTY	TREALON OF	PERMIT NU		
	262,136,130	9.79 7.91129	WY	1	FREMONT	W	72000-02141	
		N T T T T		CATION DESCRIPTIO		TOWNSHIP	ANI PANCE IN	
	1			OF SW 1/2	77 - 77 - 77 - 77 - 77		711	
	1.0			IN TWO DIRECTION	S FROM NEAREST LINES OF	QUARTER SECTION AND	DRILLING UNIT	
- i	ii ii	High	Surface	Jest	Carlotte Carlo			
1	11	X	Location		t. from (N/S) N		see attachment)	
i	1 1		and	1600 ft. from (E/W	E Line of quart	er section		
W	-1-1-	1 1 1	E					
_1				LL ACTIVITY	TYPE OF PER	MIT		
I	1 1		☐ Brine Disp	oosal	✓ Individual			
-	-+-	-+-+-	X Enhanced	Recovery	☐ Area			
1		1 1 1	☐ Hydrocarb	on Storage	Number of Wells			
f	-1-1					TRIBAL	E 30-T	
		S	Lease Name	14-20-0258-0	5504 Well f	Number		
		INJECTION	PRESSURE	TOTAL	VOLUME INJECTED	TUBING - CASING A	NNULUS PRESSURE	
		mucorion	THEODONE	TOTAL	VOLUME INVIECTED	(OPTIONAL	MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIG	
Jan	2004	1,603	1,622	79,541	2,566		0	
Feb	2004	1,649	1,700	84,766	2,923		0	
Mar	2004	1,610	1,693	79,873	2,577		0	
Apr	2004	1,671	1,680	90,744	3,025		0	
May	2004	1,693	1,700	91,671	2,957		0	
Jun	2004	1,537	1,730	85,398	2,847		0	
Jul	2004	1,516	1,691	98,456	3,176		0	
Aug	2004	1,660	1,695	95,258	3,073		0	
Sep	2004	1,607	1,727	88,619	2,954		0	
Oct	2004	1,616	1,633	83,936	2,708		0	
Nov	2004	1,682	1,710	84,887	2,830		0	
Dec	2004	1,535	1,720	84,117	2,713		0	
				NA=Not Avail	able			

#### CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

R.P. Meabon

Regulatory Coordinator

SIGNATURE

January 23, 2005

EPA Form 7520-11 (2-84)

U2 Entered
Date 2-0-0s
Initial 34

JAN 2 7 2005

RECEIVED

Office of Enforcement

Rocl untain Oil Operations Northern U.S. Business Unit



1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

February 9, 2004

US Environmental Protection Agency, Region 8 999 18<sup>th</sup> Street, Suite 300 Denver, Colorado 80202 Attention: Mr. AI Craver Mail Code 8ENF-T RECEIVED

FCQ 1 1 2004

Office of Enforcement Compliance & Environmental Justice

RE: 2003 Annual Reports
Steamboat Butte Field
Circle Ridge Field
Wind River Indian Reservation

Dear Mr. Craver,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact Mr. Randy Meabon at the above address or phone (307)527-2133.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon

Regulatory Coordinator Rocky Mountain Operations

307-527-2133

RPM/rpm Annua2003.doc Attachments U2 = 1 C 15



SEPA

ED STATES ENVIRONMENTAL PROTECTION

WASHINGTON, DC 20460

AME AND	ADDRESS OF	EXISTING PERM	NITTEE	Port (0.00)		NAME AND ADDRESS OF	SURFACE OWNER	200
	1	MARATHON	OIL CO	MPANY			T BUSINESS COUN	The second secon
		1501 STAM		VENUE	5.8.	575	P. O. BOX 217	
		CODY, WY		82414	,	FORT	WASHAKIE, WY 8	2514
		OUTLINE UNIT		STATE	COUNTY		PERMIT N	
	SECTION PLAT	- 640 ACRES		WY		FREMONT	W	Y2000-02141
		N		SURFACE LOC	CATION DESCRIP	TION		
				The second secon		MOF NE MSECTI	ON 5 TOWNSHIP	3N RANGE 1V
	-	111	-	LOCATE WELL		ONS FROM NEAREST LINES		
100	1 1			Surface			en leathanneau eachtain an	2,7040076,9700
		X	y	Location	1600	ft. from (N/S) N	Line of quarter section	(see attachment)
-	+++	1	+	2,446,020,240		(W) E Line of qu		(ood disadimoni)
v	1 1	1 No. 1	1	unu	zooo is nom je		autor socion	
1		100	E	WEI	L ACTIVITY	TYPE OF I	ERMIT Entered	
	-+-+-		-	☐ Brine Disp		ICI material -	1/	1. 1.1
				IX Enhanced		☐ Area	Date 2	12/04
				Committee of the control of the cont		Number of Wells	mitial AN	S
++				Li Hydrocarb	on Storage	110.00		E 20 T
	1 1	\$		13.75-68.57	14 20 0250	0.001	TRIBAL	E 30-1
				Lease Name	14-20-0258	-06304 W	ell Number	
			V 15.16			TANKE MALE	TUBING - CASING	ANNULUS PRESSUR
		INJE	CTION PRE	SSURE	TOT	AL VOLUME INJECTED	(OPTIONA	L MONITORING)
ONTH	YEAR	AVERAGE PS	SIG T	MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIC
Jan	2003	1,431	-	1,515	77,78		0.0000000000000000000000000000000000000	0
Feb	2003	1,384		1,670	70,60			0
Mar	2003	1,537	-	1,680	88,12			0
Apr	2003	1,564		1,700	104,09			0
May	2003	1,613		1,630	86,89			0
Jun	2003	1,534		1,547	74,49			0
Jul	2003	1,420		1,525	75,36			0
Aug	2003	1,450		1,520	73,52			0
Sep	2003	1,448		1,495	70,05			0
Oct	2003	1,434		1,480	73,41			0
Nov	2003	1,434		1,479	70,78			0
Dec	2003	1,425		1,497	73,45			0
	2000	1,120		11301	NA=Not Av			-1
					CERTIFICA			
Loortie	he under th	o nonalty of	flow that	I have norse		ed and am familiar wi	th the information s	ubmitted in
					NE 3 7 10 14-40			
46:	ocument i	and all attac	hments	and that, base	d on my inqu	iry of those individua	ls immediately resp	onsible for
tnis a	ing the inf	ormation. I	believe t	hat the inform	ation is true.	accurate, and compl	ete. I am aware that	there are
	A COLUMN TO SERVICE STATE OF THE PERSON AND ADDRESS OF THE PERSON AND					ng the possibility of fi		
obtain	cant none	ides for su	Dillitariy	laise illioillia	auon, meiaun	ig the possibility of th	ne and imprisonner	it. (Noi. 40
obtain signifi								
obtain signifi	cant pena 44.32).							
obtain signifi CFR 1	44.32).							
obtain signifi CFR 1	44.32).	LE (Please type or	r print)	SIGNATU	URE (	\	DATE SIG	NED
obtain signifi CFR 1	44.32).	LE (Please type of	r print)		DEPMS			NED ebruary 4, 2004

# Field Check pH Levels for Wind River Injection Samples

Steamboat Butte Injection Plant
Date: 7/8/03
Time: 9:45 AM
pH meter calibrated with 7.0 buffer solution
by CKA Rich
рН: _6.5
Circle Ridge Injection Plant
Date: 7/8/03

pH meter calibrated with 7.0 buffer solution

pH: \_ 7.0



# LABORATORY ANALYTICAL REPORT

Client: Marathon Oil Co

Report Date: 07/16/03

Project: Wind River Reservation UIC Program

Collection Date: 07/08/03 09:45

Lab ID: C03070392-001

Date Received: 07/10/03

Client Sample ID: Steamboat Butte Water Inj. Plant

Matrix: Aqueous

	MCL/								
Analyses	Result	Units	Qual	RL	QCL	Method	Analysis Date / By		
PHYSICAL PROPERTIES							97.400.640.77		
Conductivity	5850	umhos/cm		1.0		A2510 B	07/10/03 16:54 / sml		
Solids, Total Dissolved TDS @ 180 C	4100	mg/L		10		A2540 C	07/10/03 15:21 / sml		
Specific Gravity 60/60F	1.0	g/cc		0.1		Calculation	07/15/03 13:51 / ck		

4/

Well Number

0	_	D A
9	-	$D\Delta$
~	_	

O STATES ENVIRONMENTAL PROTECTION AC

WASHINGTON, DC 20460

NAME AND ADD	RESS OF EX	ISTING PERMI	TTEE		NAME AND ADDRESS OF SURFACE OWNER
	1:	ARATHON 501 STAME CODY, WY	PEDE AV	ENUE	JOINT BUSINESS COUNCIL P. O. BOX 217 FORT WASHAKIE, WY 82514
	WELL AND	FREMONT PERMIT NUMBER WY2000-02141			
	N		_	SURFACE LOCATION DESC % OF S	IPTION 7 WOF NE WISECTION 5 TOWNSHIP 3N RANGE 1W
		×		Surface Location 1600 ft. fro	tions from NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT  ft. from (N/S)  N Line of quarter section (see attachment)  (E/W)  E Line of quarter section
w i i	+	#	E	WELL ACTIVITY  Brine Disposal  Enhanced Recovery  Hydrocarbon Storage	TYPE OF PERMIT  Individual  Area  Number of Wells
		-+-	1	the second second second	TRIBAL E 30-T

		INJECTION	PRESSURE	TOTAL VOLUM	ME INJECTED	TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)			
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIG		
Jan	2002	1,372	1,560	86,574	2,793		0		
Feb	2002	1,437	1,487	76,878	2,746		0		
Mar	2002	1,553	1,600	89,395	2,884		0		
Apr	2002	1,473	1,650	91,761	3,059		0		
May	2002	1,604	1,686	88,328	2,849		0		
Jun	2002	1,352	1,600	86,836	2,895		40		
Jul	2002	1,421	1,510	90,128	2,907		29		
Aug	2002	1,349	1,377	83,198	2,684		0		
Sep	2002	1,500	1,571	80,633	2,688		19		
Oct	2002	1,537	1,635	84,844	2,737		20		
Nov	2002	1,514	1,519	82,832	2,761		0		
Dec	2002	1,506	1,515	81,248	2,621		0		
			N	A=Not Available					

14-20-0258-06504

Lease Name

# CERTIFICATION

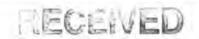
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE
R.P. Meabon	(3000)
Regulatory Coordinator	Benesta

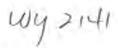
DATE SIGNED

January 17, 2003

EPA Form 7520-11 (2-84)



JAN 2 3 2003





1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

January 17, 2003

US Environmental Protection Agency, Region 8 999 18<sup>th</sup> Street, Suite 300 Denver, Colorado 80202 Attention: Mr. Al Craver Mail Code 8ENF-T

RE: 2002 Annual Reports
Steamboat Butte Field
Circle Ridge Field
Wind River Indian Reservation

Dear Mr. Craver,

Enclosed with this letter are the annual injection reports for Environmental Protection Agency primacy injection wells operated by Marathon Oil Company and water analysis for the above mentioned fields.

Should you have any questions, please contact Mr. Randy Meabon at the above address or phone (307)527-2145.

Sincerely,

MARATHON OIL COMPANY

R.P. Meabon Regulatory Coordinator Rocky Mountain Operations 307-527-2145

RPM/rpm Annua2001.doc Attachments



JAN 2 3 2003



#### LABORATORY ANALYTICAL REPORT

Client: Marathon Oil Company

Project: Wind River Reservation UIC Program Lab Order: C02090175

DateReceived: 09/06/02

Report Date: 09/13/02

Lab ID: C02090175-001 Collection Date: 09/04/02 10:25

Client Sample ID: Steamboat Butte Water Inj Plant

MCL/

Matrix: AOUEOUS RL QCL Analyses Result Units Qual Method Analysis Date / By PHYSICAL PROPERTIES 5720 Conductivity A2510 B 09/06/02 19:02 / lam umhos/cm 1.0 Solids, Total Dissolved TDS @ 180 C 3460 10 A2540 C 09/09/02 13:53 / sml mg/L Specific Gravity 60/60F 1.00 0 100 g/ac Calculation 09/13/02 09:35 / vh

Lab ID: C02090175-002 Collection Date: 09/04/02 15:05

Client Sample ID: Circle Ridge Water Inj Plant DateReceived: 09/06/02

**AQUEOUS** Matrix: MCL/ Analyses RL QCL Result Units Qual Method Analysis Date / By PHYSICAL PROPERTIES 1170 Conductivity 1.0 A2510 B 09/06/02 18:56 / lam umhos/cm Solids, Total Dissolved TDS @ 180 C 644 mg/L 10 A2540 C 09/09/02 13:53 / sml Specific Gravity 60/60F 1.00 0.100 g/cc Calculation 09/13/02 09:35 / vh

にしいしい JAN 23 203

Office or Emorcement Compliance & Environmental

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level ND - Not detected at the reporting limit.

> TRACKING NO. PAGE NO. 90175R00001



Date: 13-Sep-02

CLIENT:

Marathon Oil Company

Project:

Wind River Reservation UIC Program

Sample Delivery Group: C02090175

CASE NARRATIVE

#### THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

#### BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT

eli-g - Energy Laboratories, Inc. - Gillette. WY

eli-h - Energy Laboratories, Inc. - Helena, MT

eli-r - Energy Laboratories, Inc. - Rapid City, SD

#### SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

## SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun

ENERGY LABORATORIES. INC. - CASPER.WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the last four digits of the tracking number located in the lower right corner.

JAN 2 3 7 3

Office of Environmental Justice



# ANALYTICAL SUMMARY REPORT

September 13, 2002

Marvin Blakesley Marathon Oil Company 1501 Stampede Ave Cody, WY 82414

Workorder No.: C02090175

Project Name: Wind River Reservation UIC Program

Energy Laboratories Inc. received the following 2 samples from Marathon Oil Company on 9/6/2002 for analysis.

Sample 1D	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C02090175-001	Steamboat Butte Water Inj Plant	09/04/02 10:25	09/06/02	Aqueous	Conductivity Specific Gravity Solids, Total Dissolved
C02090175-002	Circle Ridge Water Inj Plant	09/04/02 15:05	09/06/02	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

It you have any questions regarding these tests results, please call

Report Approved By:

JAN 23 2.3 Office of Enforcement Compliance & Environmental

# Energy Laboratories Inc.

# Sample Receipt Checklist

Client Name: MRTHN-OL-CMPNY				Date a	nd Time Received:		9/6/2002 09:15:00
Work Order Number C02090175				Receiv	red by: ks		
Checklist completed by fem All	selle 9/6/	62		Review	ved by		Date
	Carrier name	Fedi	Ēχ				
Shipping container/cooler in good condition	on?	Yes	~	No _	Not Present	3	
Custody seals intact on shipping contained	r/cooler?	Yes	~	No _	Not Present	_	
Custody seals intact on sample bottles?		Yes		No _	Not Present	~	
Chain of custody present?		Yes	~	No _			
Chain of custody signed when relinquished	d and received?	Yes	V	No _			
Chain of custody agrees with sample labe	els?	Yes	~	No _			
Samples in proper container/bottle?		Yes	~	No _			
Sample containers intact?		Yes	~	No _			
Sufficient sample volume for indicated tes	1?	Yes	~	No _			
All samples received within holding time?		Yes	~	No .			
Container/Temp Blank temperature in cor	npliance?	Yes	~	No _	3 °C		
Water - VOA vials have zero headspace?		Yes		No _	No VOA vials subr	nitted	V
Water - pH acceptable upon receipt?		Yes	~	No _	Not Applicable	D)	
	Adjusted?			Checked by			
Any No and/or NA (not applicable) respor	se must be detailed in the	comme	nts se	ection below.		-	
Client contacted:	Date contacted:				Person contacted		
Contacted by:	Regarding:						
Comments:							
				_			<u> Evelved</u>
Corrective Action							JAN 2 3 2003
Consulted Action					C	Of	fice of Emorcement liance & Environmental Justice

ENERGY	-
ENERGY	
LABORATORIES	

Billings

• Casper

· Rapid City

ENERGY LABORATORIES, INC.'S CHAIN OF CUSTODY RECORD Mail Only: • Gillette

UPS/FedEx Deliveries:

PO Box 3258 • Casper, WY 2393 Salt Creek Highway

82602-3258

Casper, WY

82601

toll free 1-888-235-0515 307-235-0515 voice fax 307-234-1639

Project Wir Name	Name	Loc	Fax	Pulase	rchase (	Order # /	Bid #	-t706	Telephone		Number of containers Sample Type: A W S V U O ner Soils/solids Vegetation Urine Other	2-	Type of Argenty	of Analy	ses Requ	ested		Special Request
Date	Time	composite	grab sample	Send I		Stany Ly	seite ,	marin apony file bove	Blakesle	<i>y</i> .	Number of Sample Type: A Air Water Soils/solids.	50 2540	Specific Co.	Specific				Comments, Speci Instructions, etc
111	10:25 A) 3:05p	n	X	Ste	ambe le X	at a	utte	- Wate	Try A	1011-	1-W	X Y	X	XX			- (	Run TOSA 70AY HOOD
						SCI Jan 2	3 200	3				c						
TRACE					Compli	ance & E ance & E item.	<del>i orcem</del> invironi ce	ent mental										
EL	pler: (signa Quished by	K	nature)	4	Date 9/4/02 Date	Time 315 11 Time	n T	lik	by: (signature)	lu	1	h.	by: (sign	who	Date 9/s/s Date	1) T	ime	Received by: (signature)  Received at Laboratory (signature)  Herry Schnolar



# QA/QC Summary Report

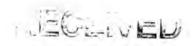
Client: Marathon Oil Company

Report Date: 09/13/02

Project: Wind River Reservation UIC Program

Work Order: C02090175

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A2510 B						Bate	ch: 02090	6B-COND-F	ROBE-W
Sample ID:	C02090175-001ADUP	Sample Dupli	cate						09/06	5/02 19:02
Conductivity		5690	umhos/cm	1.00				0.5	10	
Sample ID:	C02090194-006BDUP	Sample Dupli	cate						09/06	5/02 19:08
Conductivity		4230	umhos/cm	1.00				0.2	10	
Sample ID:	C02090194-016BDUP	Sample Dupli	cate						09/06	6/02 19:16
Conductivity	13111 27 2021 2	5230	umhos/cm	1.00				0.2	10	
Sample ID:	C02090194-026BDUP	Sample Dupli	cate						09/06	5/02 19:18
Conductivity		2310	umhos/cm	1.00				0.4	10	
Method:	A2540 C							Batch: 0	20909A-SLD	s-TDS-W
Sample ID:	C02090232-001AMS	Matrix Spike							09/09	9/02 15:19
Solids, Tota	Dissolved TDS @ 180 C	4820	mg/L	10.0	104	90	110			
Sample ID:	C02090232-001AMSD	Matrix Spike	Duplicate						09/09	0/02 15:19
Solids, Tota	Dissolved TDS @ 180 C	4820	mg/L	10.0	104	90	110	0	10	



JAN 2 3 2503

Office of Entorcement Compliance & Environmental Justice

Qualifiers: ND - Not Detected at the Reporting Limit

R - RPD outside of recommended recovery limits

S - Spike Recovery outside of recommended recovery limits

TRACKING NO. PAGE NO.

90175R00002

SE	PΑ	ANNUAI		W	IVIRONMENTAL P ASHINGTON, DC 2 ECTION WE		G REPORT	
	ADDRESS O	MARATHON ( 1501 STAMPI CODY, WYO	TEE DIL COM EDE AV	MPANY 'ENUE		ME AND ADDRESS OF SUR JOINT 1		
		ND OUTLINE UNIT ( AT 640 ACRES		STATE WY	COUNTY TION DESCRIPTION	FREMONT	PERMIT NU	
- <del>-</del>		X	E	% Of LOCATE WELL II Surface Location and 10	F SW % ON TWO DIRECTIONS F 1600 ft. from (E/W)  ACTIVITY	Om (N/S) N  E Line of quarte	_Line of quarter section (	
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		S		Brine Dispos  Enhanced R  Hydrocarbon  Lease Name	ecovery	☐ Individual ☐ Area Number of Wells ☐ Well N	TRIBAL umber	E 30-T
		INJECT	TION PRES	SSURE	TOTAL VO	DLUME INJECTED		ANNULUS PRESSURE MONITORING)
MONTH	YEAR	AVERAGE PSIG		MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIG
Jan	2001	1,480		1,507	19,484	628		10
Feb	2001	1,487		1,495	18,648	666		37
Mar	2001	1,500		1,500	8,754	796	70	40
Apr	2001	1,098		1,167	46,525	1,550	71	22
May	2001	1,239		1,560	48,841	1,575	88	0
Jun	2001	1,427		1,600	90,002	3,000	20	0
Jul	2001	1,563		1,620	105,723	3,432	3 8	0
Aug	2001	1,642		1,660	49,161	1,585	R	0
Sep	2001	1,445		1,445	27,778	925	nte	30
Oct	2001	1,512		1,540	100,951	3,277	7	33
Nov	2001	1,543		1,590	86,781	2,893	-	23
Dec	2001	1,430		1,530	84,669	2,731		0

NA=Not Available

# CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

R.P. Meabon

Regulatory Coordinator

SIGNATURE

DATE SIGNED

February 11, 2002

EPA Form 7520-11 (2-84)

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LA	BORA	TOR	ES

· Rapid City

• Billings • Casper • Gillette

ENERGY LABORATORIES, INC.'S CHAIN OF CUSTODY RECORD

Mail Only: PO Box 3258 UPS/FedEx Deliveries: 2393 Salt Creek Highway

Casper, WY

· 82602-3258 Casper, WY .

82601

toll free 1-888-235-0515 voice

307-235-0515 fax 307-234-1639

			-	poses, Please Provide Contact Name and Telephone	" s as indicate	a (5)	EE BAC	K OF FC	KM FOR E.	XAMPLI	ES AND INSTRUCTIONS)
0.00				Reservation UIC Program	f containers W S V U O		Type o	of Analyse	es Requested		Special Requests
Name	/ Phone	# /	Fax	· #	in v		4	7			
100	TAR			on out co.	f containers W S V U		ducti	RAVIN		= "	
Date	Time	composite	grab sample	Send Invoice to:  Marathan Cil Compeny  Me Moun Blakesley  1561 Stompeds Are Cody My 8240  Send Report to: Marathan Oil Compeny  Merun Blakesley  1501 Stampede Ave Cody My 82  STEAMBOOD BLAKESLEY  STEAMBOOD BLAKESLEY		507 5m2548-6	Specific cor	Specials 6.		PEG	Comments, Special Instructions, etc.
11/24/01	9:70A		X		1-6	X	×	X			LRUN TOS ASAP
1/20/01	10:5A		X	SBB Water INg. Plant CR Water Ing Plant	1-W	x	×	X			27day holding Time
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70R00003

Sampler: (signature)

11/07/01 UPS 9:300. 4:00/ Ouch Received at Laboratory by: 3. Refinquished by: (signature) Date 4. Relinquished by: (signature) Time Received by: (signature) Date Time (signature)

Received by: (signature)

Time

Date

2. Relinquished by: (signature)

Date

Time

Received by: (signature)

# ENERGY LABORATORIES, INC.'S CHAIN OF CUSTODY RECORD

voice 307-235-0515

82602-3258 PO Box 3258 · Casper, WY Mail Only: fax 307-234-1639 Casper, WY . 82602 2393 Salt Creek Highway UPS/FedEx Deliveries: (SEE BACK OF FORM FOR EXAMPLES AND INSTRUCTIONS) For Sample Tracking Purposes, Please Provide Contact Name and Telephone #'S As Indicated Special Requests Project Name / Location / Purchase Order # Number of containers
Sample Type: A W S V U O
dir Water Soils/solids Vegetation Urine Other Type of Analyses Requested Thunderbasin Town of Hope No PO # Please fax results 508 Name / Phone # / Fax # Jeff Jones @ (307) 555-1515, (307) 555-5555 fax as soon as 504,505, possible 531.1 Asbestos - TEM Thank you. 502.2 Send Invoice to: Jeff Jones 515, OC's - RADs grab sample PO Box Nowhere composite NO2, NO. F Hope, WY 80000 Date Time **9009** VOCs Send Report to: Bob Brown 50Cs Comments, Special PO Box Somewhere Instructions, etc. USA, WY 81111 Sample I.D. 1995 Phase II SDWA Primary 4 X X 5/28 11:35 Entry to Distribution X X X 9 X 5/28 11:45 Distribution Tap

1.Sampler: (signature)  Jeff Jones	Date 5-21-95	Time 12:05p	Received by: (signature) Harry Truckers	2.Relinquished by: (signature) Harry Truckers	Date 5-28-95	Time 13:15p	Received by: (signature) Sheryl A. Garling
3. Relinquished by: (signature)	Date N/A	Time N/A	Received by: (signature) N/A	4. Relinquished by: (signature) Sheryl A. Garling	Date 5-28-95	Time 14:00y	Received at Laboratory by: Roger A. Garling

#### Instructions:

- (1) A completed Chain-of-Custody must be submitted with all samples
- (2) Special Requests area can include (but not limited to) the following:
  - . Turnaround status, Rush status, Due Date, etc.
  - · Special mailing instructions:
    - send copy of Report and/or Invoice to a second party
    - send copy of Report to a Government Agencies (EPA, etc.)
- · Public Water System (PWS) Number
- . Do you want samples returned to you or disposed of?

# LABORATORY ANALYSIS REPORT

Client: Marathon Oil Company

Project: Wind River Reservation UIC Program

Contact: Marvin Blakesley
Sample Matrix: Liquid, Water
Date/Time Received: 11/28/2001 10:00

Report Date: December 3, 2001

Laboratory ID	Sample Date / Time	Sample ID	Conductivity, µmho/cm	Specific Gravity	Total Dissolved Solids, mg/L	
C01110770-001	11/26/2001 09:20	Steamboat Butte SBB Water Inj. Plant	4750	1.002	3400.0	
C01110770-002	11/26/2001 10:50	Circle Ridge CR Water Inj. Plant	1180	1.000	662	

REVIEW

DATE: 2-25-62

QUALITY ASSURANCE DATA							
Method	party.	SM 2510-B	Calculation	SM 2540-C			
Reporting Limit		1.0	0.1	10			
RPD <sup>1</sup>	0	0.2		0.0			
Spike <sup>2</sup>	2 1 W 2 1			105			
Analyst	· · · · · · · · · · · · · · · · · · ·	idr ldr	msh	ldr			
Date / Time Analyzed	- W	11/29/2001 13:19	12/03/2001 11:38	11/29/2001 14:53			

# NOTES:

- (1) These values are an assessment of analytical precision. The acceptance range is 0-20% for sample results above 10 times the reporting limit. This range is not applicable to samples with results below 10 times the reporting limit.
- (2) These values are an assessment of analytical accuracy. They are a percent recovery of the spike addition. ELI performs a matrix spike on 10 percent of all samples for each analytical method.

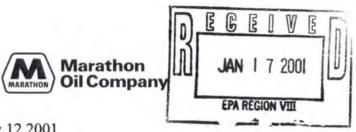
# Energy Laboratories Inc.

# Sample Receipt Checklist

Client Name MRTHN-OL-CMPNY		Date ar	nd Time Receive	11/2	8/2001 10:00:00
Work Order Number C01110770		Receive	ed by smc		
Checklist completed by Henri Schwelder 1	1/28/01	Review			
Digitalité /	Date		Initials	1	Date
Carrier na	me <u>UPS</u>				
Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🗸	No 🗆	Not Present		
Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present	<b>✓</b>	
Chain of custody present?	Yes 🗸	No 🗆			
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗆			
Chain of custody agrees with sample labels?	Yes 🗸	No 🗆			
Samples in proper container/bottle?	Yes 🗸	No 🗆			
Sample containers intact?	Yes 🗸	No 🗆			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆			
All samples received within holding time?	Yes 🗹	No 🗆			
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗆	-2 °C		
Water - VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA vials subm	nitted 🗹	
Water - pH acceptable upon receipt?	Yes 🔽	No 🗆	Not Applicable		
Adjusted?	16	Checked by	SMC		
Any No and/or NA (not applicable) response must be detailed in	the comments s	ection below.	-2	الإلالا	
Client contacted Date contacted:			Person contacted		
Contacted by: Regarding		- 4 %-			
Comments:	- 4	- 2	~		
		- °	0		
Corrective Action	REV	ANV	~ <i>U</i>		
BY		10	26,		
D	ATE: _ =	2-25.	112		

Rocky Mountain Region

10 T 4 3 4 0 - 0 4 1 1 1



1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

January 12,2001

VIA Fax # 303-312-7084

Mr. Dan Jackson US Environmental P

US Environmental Protection Agency

UIC Implementation Section 999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

Certified Mail
Return Receipt Requested

RE: Tribal E-30 EPA # WY2000-02141

Tribal C-30X EPA # WY2000-02143 Steamboat Butte Field

Fremont, County, Wyoming

C pert 7004-7210

Figgs - 7148

Dear Mr. Jackson,

This letter is to advise of Marathon Oil Company plans to stimulate and extend the Tensleep completion in both the above wells. This work was discussed in a phone conversation with Chuck Williams on the 10<sup>th</sup> of January. Additional perforations for injection are necessary to increase the recovery of reserves from offset Tensleep producing wells.

The Tribal C-30X well(EPA # WY2000-02143) is under the Rule Authorized well(Grand-fathered injector). Additional perforation intervals into the Tensleep formation at Tribal C-30X was approved by the EPA on February 28, 1997. We now plan to commence such work and injection. Enclosed is a copy of the EPA approval copy. The other well, Tribal E-30(EPA #WY2000-02141) is also a Rule Authorized well)Grand-fathered injector) Marathon will perforate the Tensleep at E-30 from 6908' to 6991' and at C-30X from 6924' to 7210'. Sand frac's on both wells will follow.

At your earliest convience, please approve the additional perforations for the Tribal E-30 well. Following the workover operations each well will have a mechanical intergrity test prior to resuming injection. Also a Well Rework Record form and Mechanical Integrity Test form will be submitted to you within (30) days of completion of the workovers.

Thank-you for your prompt attention to this matter. Should you require additional information, please contact me the above letter head address or phone (307)527-2150.

Sincerely,

MARATHON OIL COMPANY

Carl R. Roberts Assoc. Engr. RMO Oil Team

Attachements CRR:dlc (3156-12)



March 27, 2000

1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

RECEIVED

WY - DUUL - JAME

MAR 2 9 2001

CERTIFIED MAIL Return Receipt Requested

US Environmental Protection Agency, Region 8 Attention: Mr. Al Craver Mail Code 8ENF-T 999 18<sup>th</sup> Street – Suite 300 Denver, CO 80202-2466

RE: Tribal E-30 EPA # WY2000-02141 SW NE Sec.5, T3N, R1W Steamboat Butte Field Wind River Indian Reservation Fremont County, Wyoming

# Well Rework Record, MIT, and Request Permission to Inject

Dear Mr. Craver,

Attached please find the original MIT for the above well, Tribal E-30, performed okay to 1000 psig for 35 minutes and witnessed by Mr. Richard Burnette, Tribal member of the Shoshone Oil and Gas Commission. Additionally attached is the Well Rework Record and a well bore diagram.

Marathon Oil Company requests permission to commence injection into the Tribal E-30 well as all of the requirements from the final permit have been completed. Please respond to the above address if there are any questions.

Sincerely,

MARATHON OIL COMPANY

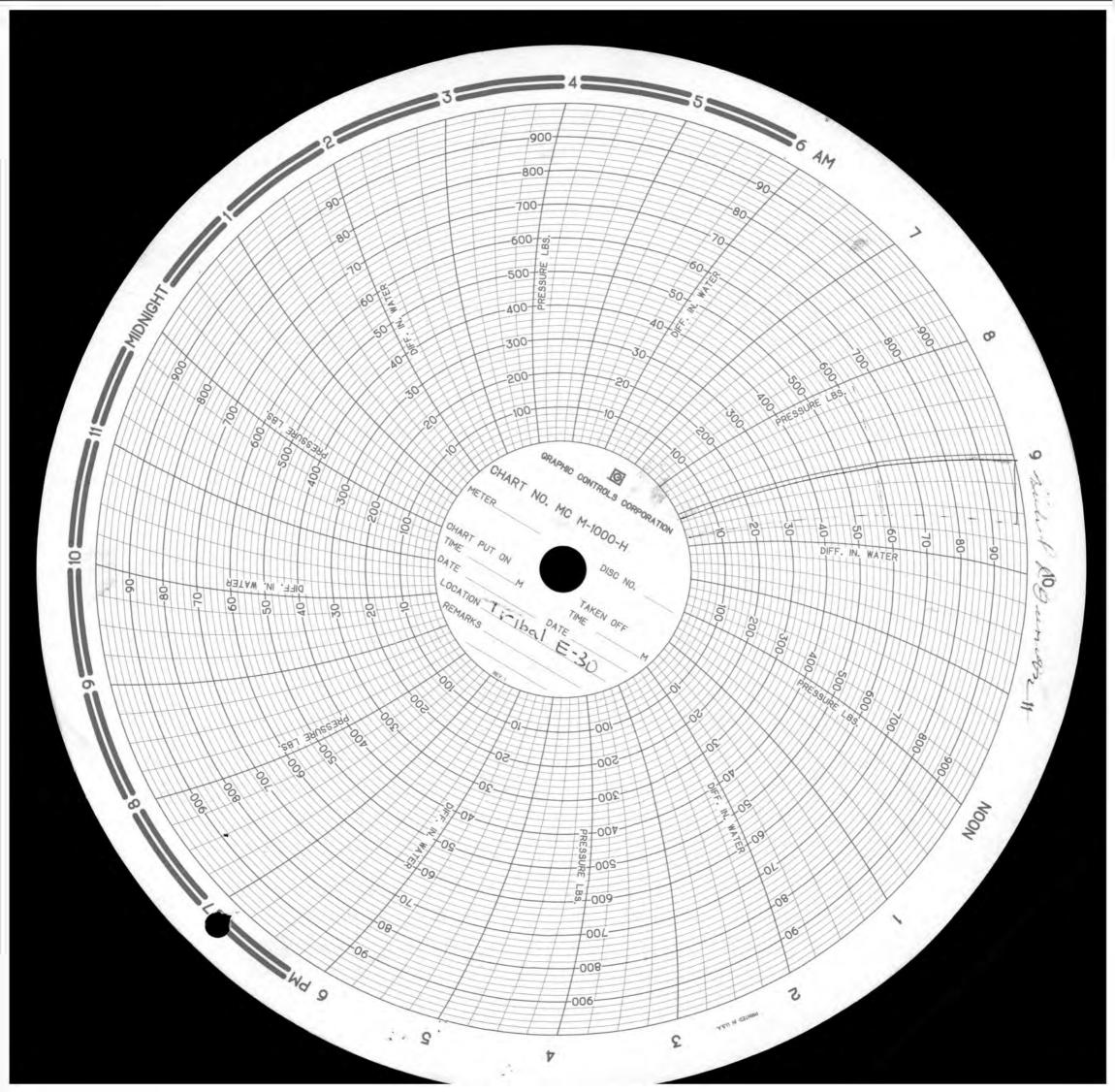
Carl R. Roberts Assoc. Engineer

CRR/crr E-30mitInject.doc Attachments

cc: D.J. Haman

J.F. Salomonsen-Steamboat Butte Field Office

"WRF"



# Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW 999 18th Street, Suite 500 Denver, CO 80202-2466

Others present: Grey Hilton	1 - M	١٥٥	*	•	
Well Name: Tribal E-30 Field: Steamboat Butte			ER SWD	Status: AC TA UC	
Location: Sec: 5 T			County: Fre	mont State: WY	
Last MIT: 12 / 8 / 9.9			ssure: 1830	PSIG	
Is this a regularly scheduled test?	[X] Yes	[ ] No			
Is this a regularly scheduled test?  Initial test for permit?					
	[ ] Yes	-[X] №		· ·	
Initial test for permit?	Yes Yes	_[ ] No	If Yes, rate: _	bpc	i

MIT DATA TABLE	Test #1		Tes	t #2	Tes	t #3
TUBING	PRESSU	URE				
Initial Pressure		psig		psig		psig
End of test pressure		psig		psig		psig
CASING / TUBING	ANNUL	US	PRESSURI	E		
0 minutes	1000	psig		psig		psig
5 minutes	995	psig		psig		psig
10 minutes	990	psig	ig psig			psig
15 minutes	985	985 psig		psig		psig
20 minutes	980	psig		psig		psig
25 minutes	980	psig		psig		psig
30 minutes	980	psig		psig		psig
minutes		psig		psig		psig
minutes		psig		psig		psig
RESULT	Pass	[ ]Fail	[ ] Pass	[ ]Fail	[ ] Pass	[ ]Fail

Does the annulus pressure build back up after the test?	I	] Yes	[X] No

# MECHA... JAL INTEGRITY PRESSULL TEST

	*
4C=	
	246
	M.
2 2 2 2	15 ~ F-FOX
OFFICE USE ONLY - COMPLIANCE F	Date:
OFFICE USE ONLY - COMPLIANCE For the staff  o you agree with the reported test results of the staff.	FOLLOWUP  Date: / / S? [ ] YES [ ] NO
OFFICE USE ONLY - COMPLIANCE For the staff  o you agree with the reported test results of the staff.	FOLLOWUP  Date: / / S? [ ] YES [ ] NO
OFFICE USE ONLY - COMPLIANCE F Staff Oo you agree with the reported test results If not, why? Possible violation identified? [ ] YES	FOLLOWUP  Date: / / S? [ ] YES [ ] NO  [ ] NO



# D STATES ENVIRONMENTAL PROTECTION AG

WASHINGTON, DC 20460

22 -	4			WELL	REWORK	( K	ECORD	
NAME AND ADD						NAI	ME AND ADDRESS OF CONTRACTO	
		arathon Oil						ell Service
150	01 Stampede	Avenue	Cody,	Wyoming 824	14		P. O. Box 1148 The	ermopolis, WY 82443
				STATE	COUNTY			PERMIT NUMBER
LOCATE	WELL AND OUT	LINE UNIT ON		WY			Fremont	WY2000-02141
	TION PLAT - 64			SURFACE LOCA	ATION DESCRIPT	ION		
	•	-	-	%0	F SW	1/4 OF	NE % SECTION	5 TOWNSHIP 3N RANGE 1W
	- N		7	LOCATE WELL			ROM NEAREST LINES OF QUARTE	
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			4	and 1	tt. from (E	/W)	E Line of quarter section	
i i	1	1 1		WELL	ACTIVITY		Total Depth Before Rework	TYPE OF PERMIT
Wii			E	☐ Brine Dispos	sal		7296'	☑ Individual
1-1-1	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				- 1	Total Depth After Rework	Area Number of Wells	
						7296'		
			, otologe	1	Date Rework Commenced	Rule Authorized		
			7	Lease Name			3/7/2001	Well Number
	S		_1		5.77		Date Rework Completed	7.0
				Tr	ibal E		3/23/2001	30
			WE	II CASING	RECORD -	- RF	FORE REWORK	
Cas	ing	Cen		LE OAOINO	Perforations	DL	Y. Fundamental Committee of the Committe	id or Fracture
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5 1/2	7296	1290	Н					
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				7110				
		-						
	141	ELL CACI	NC D	7138			1 0 0 A 1000 - A 1000	
				ECORD AI	Perforations	UKN	(Indicate Additions and Chang	id or Fracture
Cas Size	Depth	Cen Sacks	Тур	e From		0		atment Record
5 1/2"	7296'	1290	H			_		Delta Frac, SLF, 39,827# sand
3 1/2	7270	1200	- 1,	6910			10,020 gais with 2011 E	yella Frac, BEF, 32,027 m Sand
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							at, based on my inquiry	
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MANE THE CO.		7.5 -0 -7			71 min 2 min	1 4 7		L DATE SIGNED
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	Assoc. En	gineer		La	41.1	_	ao una	2/0/10

Rework Operations Attachment Tribal E-30

Pulled injection equipment. Perforated the extended Tensleep zone, from 6862'6872',6910'-6930'. Isolated the Tensleep perfs with BP and pkr. Sand frac'd the Tensleep zone, 6862'-6930' with 39,827# 20/40 Ottowa sand and 16,026 gal fluid. An MIT was conducted successfully to 1000 psi for 35 minutes on 3/23/01, witnessed by Shoshine Oil and Gas Commission Tribal member, Mr Richard Burnette.



## Tribal E-30

(Existing)

General Well Information: API Code: 49-013-21402 Reservoir: Tensleep Field: Steamboat Butte Field Code: 3231 OP - 16838 Permit No.: WY2000-02141 Spud: January 29, 1984 Finished Drilling: March 3, 1984 Completion: March 28, 1984 First Prod/Inj: June 29, 1984

Abandon:

Well Location:

1600' FNL, 1600' FEL, Sec 5, T3N-R1W

Elevations:

KB: 5690' Csg Flange Grd: 5678' Tbg Head KB-Grd: 12'

Last MIT: March 23, 2001 Max Inj P: 1860 psig

Max Inj Q:

Formation Tops

2847 Frontier 3574 Mowry 4113 Muddy 4158 Thermon 4327 Dakota 4405 Fuson 4693 Morrison 4769 Sundance 5050 Gyp Springs 5266 Nugget 5394 Chugwater 5552 Curtis

5677 Alcova 5832 Red Peak

6538 Dinwoody 6624

**PBTD 7208** Phosphoria TD 7296"

Crow Mountain

6908 Tensleep Tree: 2-9/16, 5K

9-5/8" 40# K-55 LT&C @ 1024' w/ 300 sx (TOC - Surface) 12-1/4" hole

10 its 2-7/8" 6.5# C-75 8rd Tubing (non-coated) 218 jts 2-7/8" Tubing (IPC)

Baker F Nipple (2.25" ID)

6800 Baker Model R3 Double Grip Packer

Perfs (Tensleep) 6910'-6930'(2spf-3/9/01) 6862'-6872'(2spf-3/9/01) 6991-7016' (4 spf - 3/27/91)

7036-7052' (4 spf - 3/27/91)

7110-7120' (4 spf - 3/27/91) 7138-7148' (4 spf - 3/27/91)

5-1/2" 17# L-80 @ 7296' w/ 1290 sx (TOC - 4794' CBL) 8-1/2" hole

Fill @ 6966' (1/30/2001

Well History:

5646

9/84 - Pumped polymer to modify injection profile.

6/84 - Put on injection at 3619 bwipd at 1150 psig.

3/84 - Completed as Tensleep water injector. Perforated and acidized (6000 gals 15% HCI) Tensleep.

BEET THE NAME OF THE PERSON.

1/91 - Tubing failure. Replace 1 jt. Acidize tbg w/ 800 gals 15% HCl. Acid did not dissolve scale. Replace tbg.

12/99 - Replaced 1 it of corroded tubing. Perform MIT. Note: lots of scale in tubing.

1/01 - Tagged fill at 6966' (above perfs).

3/9/01 Perforated the Tensleep wth 2spf: 6862'-72', 6910'-30'

3/7/01 Sand frac'd Tensleep 6862'-6930' w/39,827# 20/40 Ottowa sand and 16,026 gal fluid(Delta Frac)

Well Name & Number:	Tribal E-30	Lease:	Tribal E-30		
County or Parish:	Fremont	State/Prov.	Wyoming	Country:	USA
Current Status:	Active Tensleep Injector				
Prepared By:	M. Olson	Last Revision	n Date: 3/26/2001		001

26-MAR-2001 07:33:45 AM

### MUC MORNING REPORT ACTIVITY REPORT FOR TRIBAL E 30 FROM 25-FEB-2001 TO 25-MAR-2001

Page: 2 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

INTENT: SAND FRAC INJECTOR

07-MAR-2001 SI this well today in preparation for upcoming workover. Approval was given to shut injection down from the EPA via phone call on March 5th. Well went on a vacuum and has no wellhead pressure. A 400 bbl swab tank, 400 bbl frac tank, rig pump, flat tank, and tubing racks has been moved

SHUT-IN/RIG DATA

SI DATE MIRU DATE

RIG NAME

RIG#

07-MAR-2001

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST
DRILLING	0	0	0
COMPLETION W/O RM	500	0	500
SURFACE	0	0	0
TOTALS	500	0	500

08-MAR-2001 HCC moved 230 joints of 3-1/2" slimhole N-80 workstring on to location. MIRU R&S Well Service Rig #10. Rig had welder perform rig maintenance, and drill line was replaced before work was started. ND wellhead and NU BOP's, changed out rams to 2-7/8". Released packer, and started coming out of the hole laying down 2-7/8" J-55 internally coated tubing. LD 80 joints and SDFD.

SHUT-IN/RIG DATA

SI DATE 07-MAR-2001

08-MAR-2001

MIRU DATE RIG NAME R&S WELL SERVICE RIG#

10

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	1700	500	2200		
SURFACE	0	0	0		
TOTALS	1700	500	2200		

09-MAR-2001 HCC moved 25 joints of 2-7/8" J-55 tubing onto location. LD the rest of the 2-7/8" J-55 internally coated tubing. Top 10 joints of the 2-7/8" string was uncoated and the seating nipple was uncoated. A scale buildup was occuring on the inside of the uncoated joints and seating nipple. An acid test indicated that the scale buildup was purely iron sulfide. NU BOP's and change out rams to 3-1/2". PU and RIH with a notched collar, jet sub, 2 check valves, 24 joints of 2-7/8" J-55 tubing, tubing pump, 2 check valves, 6' pup joint, 1 joint of 2-7/8" J-55, and a 4' perforated sub. Crossover to 3-1/2" and PU 100 joints of 3-1/2" N-80 workstring.

SI DATE 07-MAR-2001 08-MAR-2001

MIRU DATE RIC NAME OF A STATE OF R&S WELL SERVICE

RIG# 10

26-MAR-2001 07:33:46 AM

# C MORNING REPORT ACTIVITY REPORT FOR TRIBAL E 30 FROM 25-FEB-2001 TO 25-MAR-2001

Page: 3 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	1700	2200	3900		
SURFACE	0	0	0		
TOTALS	1700	2200	3900		

12-MAR-2001 Continue PU 3-1/2" N-80 workstring and RIH with sand pump assembly. Tagged up at 6973' KB. Drilled on hard fill and baled 4' of fill. Dropped through bridge and tagged up again at 7040' KB. Drilled hard hill and baled 7' of fill down to 7047' KB. Clutch began slipping on the rig, could no longer operate sand pump. POOH and stand back all 3-1/2" workstring. LD sand pump assembly. Tail joints had scale in them, acid test indicated iron sulfide. SWIFN.

MIRU DATE RIG NAME SI DATE RIG# R&S WELL SERVICE 07-MAR-2001 10 08-MAR-2001

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	2000	3900	5900		
SURFACE	0	Q	0		
TOTALS	2000	3900	5900		

13-MAR-2001 MIRU Halliburton Wireline. NU lubricator. PU and RIH on wireline with 10' of 4" port guns loaded at 2 spf and 120 degree phasing with big hole charges. Correlated to cement bond log to get on depth, and perforated the Upper Tensleep from 6862' to 6872' KB. POOH with guns, all shots fired. PU and RIH on wireline with 20' of 4" port guns loaded at 2 spf and 120 degree phasing with big hole charges. Correlated to cement bond log to get on depth, and perforated the Upper Tensleep from 6910' to 6930 KB. POOH with guns, all shots fired. Saw no change in pressure at the surface after both perforating runs, well was dead. ND lubricator and RDMO Halliburton Wireline Services. PU 4-3/4" bit and 5-1/2" HES scraper and RIH on 3-1/2" tubing. RIH with one joint and SDFD. Cannot trip pipe due to excessive winds.

SI DATE MIRU DATE RIG NAME RIG# 07-MAR-2001 08-MAR-2001 R&S WELL SERVICE 10

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	4700	5900	10600		
SURFACE	0	0	0		
TOTALS	4700	5900	10600		

26-MAR-2001 07.:33:46 AM

C MORNING REPORT C MORNING REPORT
ACTIVITY REPORT FOR TRIBAL E 30 FROM 25-FEB-2001 TO 25-MAR-2001

Page: 4 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

PERF DATA

VENDOR: HALLIBURTON GUN SIZE: 4" CHG SIZE(GM): 22.7

CHG TYPE: BIGHOLE CORRELATION LOG USED: CBL-CCL

SUB: UPPER TOP DEP: 6862 FORM: TENSLEEP

BOT DEP: 6872 DEN SPF: 2 PHASE DEG: 120 TOT SHOTS: 20

STIM GUN: SLEEVE LENGTH(ft): 0.0'

OTHER DEPTHS: SUB: UPPER TOP DEP: 6910 FORM: TENSLEEP

BOT DEP: 6930 DEN SPF: 2 PHASE DEG: 120 TOT SHOTS: 40

SLEEVE LENGTH(ft): 0.0' STIM GUN:

OTHER DEPTHS:

14-MAR-2001 PU and RIH with 4-3/4" bit and 5-1/2" scraper on 5 joints of 2-7/8" tubing and the rest 3-1/2" N-80 workstring. RIH to 7001' KB and started scraping hard. Started circulating to clean out fill, filled hole and caught circulation with 62 bbls. Circulated one joint down real easy, then started drilling on scale while circulating down. Broke through several scale rings and continued to circulate downhole, lost no water to the formation. Started drilling harder scale at 7115' KB, still able to circulate downhole while drilling on scale. Broke through hard scale at 7150 and circulated downhole easily to PBTD of 7208' KB. Circulated clean, SD pumps, and POOH to 6900'. SWIFN. Nalco chemical hand performed several acid tests on the returns, all samples indicated a strong presence of Calcium Carbonate and Iron Sulfide.

SHUT-IN/RIG DATA

SI DATE MIRU DATE SI DATE MIRU DATE RIG NAME 07-MAR-2001 08-MAR-2001 R&S WELL SERVICE RIG#

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	3000	10600	13600		
SURFACE	0	0	0		
TOTALS	3000	10600	13600		

15-MAR-2001 TIH W/CSG scraper back through perforation. TOOH w/3-1/2"TBG and CSG scraper. LD CSG scraper. PU model N Quik BP TIH set at 60'pull TBG out and pressure test blind rams to 2000 PSI.PU 3-1/2" TBG pup w/ collar on bottom pull up against pipe rams and pressure test to 1000 PSI held. TIH Release RBP TOOH LD RBP. PU and RIH with 5-1/2" HES RBP, retrieving head, 6' pup, HES RTTS packer, 2-1/4" seating nipple, 2-7/8" N-80 6' pup, crossover, and 3-1/2" N-80 tubing. Set RBP at 6978', PU to 6945' and set packer. Pressure test RBP and pressure did not hold. RIH and released RBP, PU to 6968' and set RBP. PU to 6945' and set packer. Pressure tested RBP to 1600# and pressure held. PUH to 6791' and set packer packer. Pressure tested casing to 500# and pressure held. SWIFN.

SHUT-IN/RIG DATA RIG NAME

MIRU DATE RIG# R&S WELL SERVICE 07-MAR-2001 08-MAR-2001 10

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	2400	13600	16000		

26-MAR-2001 07::33:46 AM

#### C MORNING REPORT ACTIVITY REPORT FOR TRIBAL E 30 FROM 25-FEB-2001 TO 25-MAR-2001

Page: 5 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

SURFACE 0 0 TOTALS 2400 13600 16000

19-MAR-2001 Filled tubing and dropped standing valve. When standing valve seated, filled tubing to surface. MIRU Halliburton. Pressure tested tubing to 6100# and surface lines to 7000#. Fished standing valve, and set the pop-off on the backside to 850#. Started pumping frac, pressure broke at 2.9 bpm at 2200#. Pumped frac away at approximately 20 bpm and 2500-3500#. Started losing pressure in the 7 ppg stage like the frac was expanding to the lower Tensleep. Increased rate to try and avoid screen out, maintained pressure. Flushed to 1 bbl above the top perf. RDMO Halliburton. Released packer and POOH with 3-1/2" slimhole workstring. RIH with retrieving head on 3-1/2" workstring and prepare to circulate sand off the RBP and retrieve. SWIFN.

SHUT-IN/RIG DATA

SI DATE MIRU DATE

RIG NAME

RIG# 10

07-MAR-2001 08-MAR-2001 R&S WELL SERVICE

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	34000	16000	50000		
SURFACE	0	0	0		
TOTALS	34000	16000	50000		

FRAC DATA

FORMATION	SUB	TOP P	ERF	BOT	PERF	VENDOR
TENSLEEP	TOP	6	862		6940	HALLIBURTON

						. 4-	02.0	****				
	PPG	RATE			PRESS	VOLUME						
	PPG	(BPM)	FRAC I	LIQUID	(PSI)	(GAL)	PROP	SZ	PROP	TYPE	LBS PF	05
PAD	PPG	5.8	Delta	Frac	2187	1259						
1.0	PPG	16.4	Delta	Frac	3815	560	20/40	)	Otto	va	17	13
	PPG	19.8	Delta	Frac	3477	4004						
1.0	PPG	20.6	Delta	Frac	3115	813	20/40	)	Otto	va	17	12
2.0	PPG	20.7	Delta	Frac	3105	1011	20/40	)	Otto	va	179	15
3.0	PPG	20.9	Delta	Frac	3019	1506	20/40	0	Otto	va	584	19
4.0	PPG	21.0	Delta	Frac	3016	2012	20/40	)	Otto	va	881	5
6.0	PPG	21.4	Delta	Frac	2585	1512	20/40	)	Otto	va	1138	35
7.0	PPG PPG PPG PPG PPG PPG	23.1	Delta	Frac	2479	865	20/40	0	Otto	vá	1163	18
ISPL	PPG	22.0	Delta	Frac	3005	2484 16026					3982	7

D TOTALS PPG

ISIP 1333 , 5 MIN SIP 800 , 10 MIN SIP 370 , 15 MIN SIP 66 20-MAR-2001 Tagged sand at 6862'. Circulated sand out to RBP and latched on to RBP. Released RBP and RIH to 7160' cleanly, did not tag fill. POOH with RBP while LD 3-1/2" slimhole workstring. LD RBP and SWIFN.

SHUT-IN/RIG DATA MIRU DATE RIG NAME SI DATE RIG# 07-MAR-2001 R&S WELL SERVICE 08-MAR-2001 10 26-MAR-2001 07:33:46 AM

C MORNING REPORT ACTIVILI REPORT FOR TRIBAL E 30 FROM 25-FEB-2001 TO 25-MAR-2001

Page: 6 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	2400	50000	52400		
SURFACE	0	0	0		
TOTALS	2400	50000	52400		

21-MAR-2001 ND BOP's. PU 5-1/2" injection packer and RIH while FU 2-7/8" internally coated tubing. RIH to 2500' and packer set when it hit fluid. Had a hard time releasing and decided to come out of the hole to check for damage to the rubbers. Packer looked fine except for some junk in the bottom of it. Cleaned up packer and ran back in hole to 6794'. Pumped 110 bbls of water down the backside with 5 gallons of packer fluid. Set packer at 6794' and RU pump to test backside. Tested backside to 1000# and pressure held. SDFD. Al Craver with the EPA and Richard Burnette with the Shoshone O&G Commission were contacted and informed of an upcoming MIT on this well on Friday, March 23rd. Both parties consented.

SHUT-IN/RIG DATA

SI DATE MIRU DATE RIG# RIG NAME 07-MAR-2001 08-MAR-2001 R&S WELL SERVICE

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT		
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST		
DRILLING	0	0	0		
COMPLETION W/O RM	2400	52400	54800		
SURFACE	0	0	0		
TOTALS	2400	52400	54800		

22-MAR-2001 RDMO R&S Well Service Rig #10. The swab tank, frac tanks, pipe racks, rig pump, and flat tank have all been moved to Tribal E-26.

SHUT-IN/RIG DATA MIRU DATE RIG NAME SI DATE RIG# 07-MAR-2001 08-MAR-2001 R&S WELL SERVICE

DAILY COST

INTENT: SAND FRAC INJECTOR

	DAILY	PREVIOUS	CURRENT
DESCRIPTION	COSTS	CUM DLY COST	CUM DLY COST
DRILLING	0	0	0
COMPLETION W/O RM	1000	54800	55800
SURFACE	0	0	0
TOTALS	1000	54800	55800

23-MAR-2001 Performed MIT using R&C Trucks, pressure tested the casing to 1000# and the pressure bled to 980# in 35 minutes. Richard Burnette with Shoshone Oil & Gas Commission witnessed the proceedings, and approved the test.

SHUT-IN/RIG DATA

RIG NAME SI DATE MIRU DATE RIG#

07-MAR-2001

ED STATES ENVIRONMENTAL PROTECTION /

SEPA

WASHINGTON, DC 20460

# ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

IE AND ADDRESS OF EXISTING PERMITTEE
MARATHON OIL COMPANY
1501 STAMPEDE AVENUE
CODY, WYOMING 82414

NAME AND ADDRESS OF SURFACE OWNER

JOINT BUSINESS COUNCIL P.O. BOX 217

FORT WASHAKIF WY 82514

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w	++-		
	11		
		Lii	

LOCATE WELL AND OUTLINE UNIT ON

2414				TOKI WE	OILVI	NIE, WI 02	214		
STATE	COUNTY	FRE	MON	Т				-02141	
SURFACE LOC		TION		Sant Street	5	TOWNSHIP	3N	RANGE	1W
Surface Location	1600	_ ft. from (N/S)		REV	ine of q				
Brine Disp  Enhanced  Hydrocarb	osal Recovery on Storage	Number	ividual a	DATE:	02	500 000			
	STATE WY SURFACE LOC '4 LOCATE WELL Surface Location and WEL Brine Disp Surface	STATE WY  SURFACE LOCATION DESCRIPT % OF SW  LOCATE WELL IN TWO DIRECTI Surface Location 1600 and 1600 ft. from (E  WELL ACTIVITY Brine Disposal Enhanced Recovery Hydrocarbon Storage	STATE COUNTY WY FREM SURFACE LOCATION DESCRIPTION 4 OF SW 4 OF 1  LOCATE WELL IN TWO DIRECTIONS FROM NE Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W) E  WELL ACTIVITY Brine Disposal Ind Enhanced Recovery Are Hydrocarbon Storage	STATE	STATE COUNTY WY FREMONT  SURFACE LOCATION DESCRIPTION 4 OF SW 4 OF NE 4 SECTION  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUE Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W) E Line of quarters  WELL ACTIVITY TO E-OF PERM  WELL ACTIVITY TO E-OF PERM  Brine Disposal Individual Enhanced Recovery Area DATE: Hydrocarbon Storage Number of Wells	STATE COUNTY WY FREMONT  SURFACE LOCATION DESCRIPTION 4 OF SW 4 OF NE 4 SECTION 5  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W)  WELL ACTIVITY Brine Disposal Individual Senhanced Recovery Area DATE: 2  Hydrocarbon Storage  Number of Wells	STATE COUNTY WY FREMONT WY  SURFACE LOCATION DESCRIPTION % OF SW % OF NE % SECTION 5 TOWNSHIP  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W) E Line of quarter section  WELL ACTIVITY TOWNSHIP  Brine Disposal Individual Enhanced Recovery Area DATE: 02/33/01 Hydrocarbon Storage Number of Wells  TRIBAL E	STATE COUNTY WY FREMONT WY2000  SURFACE LOCATION DESCRIPTION 4 OF SW 4 OF NE 4 SECTION 5 TOWNSHIP 3N  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLIN Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W) E Line of quarter section  WELL ACTIVITY Brine Disposal Individual Enhanced Recovery Hydrocarbon Storage  TRIBAL E 30-	STATE COUNTY WY FREMONT WY2000-02141  SURFACE LOCATION DESCRIPTION % OF SW % OF NE % SECTION 5 TOWNSHIP 3N RANGE  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location 1600 ft. from (N/S) and 1600 ft. from (E/W) E Line of quarter section  WELL ACTIVITY Brine Disposal Individual Enhanced Recovery Hydrocarbon Storage  TRIBAL E 30-T

	1 1	S	J		F	NTEDE		
		INJECTION	PRESSURE	TOTAL VOLUME INJECTED TUBING CASING ANNULUS PRES				
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	BWIPD	MINIMUM PSIG	MAXIMUM PSIG	
Jan	2000	1,692	1,700	26,988	870.58		NA	
Feb	2000	1,638	1,680	21,053	760.03		0	
Mar	2000	1,692	1,750	30,490	983.55		0	
Apr	2000	1,528	1,750	22,048	734.93		0	
May	2000	1,542	1,578	21,295	686.94	ή	0	
Jun	2000	1,564	1,575	22,617	753.90		15	
Jul	2000	1,549	1,585	33,347	1,075.71		20	
Aug	2000	1,574	1,719	30,718	990.90		12	
Sep	2000	1,578	1,638	17,375	585.01		57	
Oct	2000	1,581	1,605	39,403	1,271.06		50	
Nov	2000	1,426	1,560	31,520	1,050.66		35	
Dec	2000	1,511	1,514	31,207	1,006.67		30	

NA=Not Available

# CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

W. L. Browne Operations Manager SIGNATURE

DATE SIGNED

February 8, 2001

EPA Form 7520-11 (2-84)

J. L. (J. lowzer Production Manager Rocky Mountain Region

FEP 14 2000



February 9, 2000

1501 Stampede Avenue Cody, WY 82414 Telephone 307/587-4961

Received Office of Enforcement

FEB 1 4 2000

Compliance & Env. Justice

David Hogle

Director Groundwater Program
U. S. Environmental Protection Agency
Region VIII, Mail Code 8P2-W-GW
999 – 18<sup>th</sup> Street, Suite 500
Denver, CO 80202-2466

Certified Mail Return Receipt Requested Z 301 626 051

Connally Mears
Director – Technical Enforcement Program – UIC
U. S. Environmental Protection Agency
Region VIII, Mail Code 8ENF-T
999 – 18<sup>th</sup> Street, Suite 500
Denver, CO 80202-2466

Certified Mail Return Receipt Requested Z 301 626 052

Re: Signatory Authorization – Applications, Permits, Permit Reports and Information to the US Environmental Protection Agency

# Gentlemen:

I, J. L. Bowzer, succeeding Mr. Tim Tipton as Marathon Oil Company's Rocky Mountain Region Manager, authorize Mr. W., D. Holmes, Operations Manager, to sign applications for permits, permit reports and other such information to be submitted to the U. S. Environmental Protection Agency under its applicable statutes and regulations.

Enclosed is a copy of a certification from Marathon's Assistant Secretary which confirms that Region Operations Managers have authority to execute permits, notices, reports or any other documents relating to Marathon Oil Company's exploration and production operations.

I further authorize Mr. R. P. Meabon and Mr. C. R. Adams to sign reports and other routine correspondence and forms, including requests for well work, well rework forms, plugging and abandonment notices, and other information requested by the Director.

Sincerely,

MARATHON OIL COMPANY

J. L. Bowzer

Production Manager Rocky Mountain Region

JLB:dle

Attachment

reived Inforcement FEB J Z 2000

#### CERTIFICATION

= Env. Justice

I, J. A. Evans, Assistant Secretary of Marathon Oil Company, an Ohio corporation, hereby certify that the following is a true and correct copy of a resolution unanimously adopted at a meeting of the Executive Committee of the Board of Directors of Marathon Oil Company, held in the City of Midland, Texas on the 10th day of October, 1994, at 12:40 p.m., at which meeting all members of the Committee were present:

"WHEREAS:

On July 12, 1982, in conformance with the U.S. Environmental Protection Agency regulations then in effect, this Company authorized the President to designate employees authorized to sign environmental permit applications and related documents on behalf of the Company; and

"WHEREAS:

On June 22, 1987 this Company authorized the President and any Vice President to enter into transactions pertaining to the business of the Company and to execute and deliver any and all written instruments in connection with any such transaction, including but not limited to permits, reports or other documents related thereto and further authorized the President and any Vice President to delegate the authorities granted thereby to other employees of the Company; and

"WHEREAS:

Environmental Protection Agency regulations now allow the delegation of authority to execute such documents to qualified corporate managers;

"NOW, THEREFORE, BE IT RESOLVED: That the Region Production Managers, the Refining Division Managers, the Marathon Brand Division Manager and the Manager, Logistics & Terminals of this Company are hereby authorized:

- (1) To execute on behalf of the Company
  - (a) permit applications; and
  - (b) reports required by permits, responses to requests for information issued by any permit issuing authority and permit applications for Class II wells under the Underground Injection Control Program;

all as required or permitted under the Clean Air Act, Clean Water Act, Safe Drinking Water Act, Resource Conservation and Recovery Act, Comprehensive Environmental Response, Compensation and Liability Act, Toxic Substances Control Act or corresponding state acts or any implementing regulations and any amendments to such acts or regulations; and

(2) Where allowed by law, to delegate, in writing, the authority granted under (1)(a) or (b) above to any employee of the Company having responsibility for the overall operation of the regulated facility or activity, or any employee of the Company having responsibility for environmental programs at that regulated facility or activity; and

"FURTHER RESOLVED: That the resolution of similar nature adopted on December 20, 1990 is hereby superseded."

IN WITNESS WHEREOF, I have hereunto affixed my signature and the seal of the Company this 20th day of April, 1995.

Assistant Secretary Marathon Oil Company

ED STATES ENVIRONMENTAL PROTECTION.

IAME AND ADDRESS OF EXISTING PERMITTEE  MARATHON OIL COMPANY  1501 STAMPEDE AVENUE  CODY, WYOMING 82414					N	NAME AND ADDRESS OF SURFACE OWNER JOINT BUSINESS COUNCIL P. O. BOX 217 FORT WASHAKIE, WY 82514			
		OUTLINE UN		STATE WY	COUNTY	FREMONT	1 7 7 1 7 1 7 1 7 1 7 1	PERMIT NUMBER WY2000-02141	
		N		SURFACE LOC	ATION DESCRIPTION		5 TOWNSHIP	3N RANGE 1W	
+	11	i x		Surface Location	IN TWO DIRECTIONS	FROM NEAREST LINES OF $Q$ from (N/S) $N$ Line of quarter	UARTER SECTION AND	5,435,43	
w			E	Brine Dispo	L ACTIVITY  osal  Recovery on Storage  14-20-0258-06	TYPE OF PERM Individual Area Number of Wells Well Mo	FEB 1	A 2000	
MONTH	YEAR	S INJE	ECTION PRES	SSURE MAXIMUM PSIG	TOTAL V	OLUME INJECTEDE:		NNULUS PRESSURE MONITORING) MAXIMUM PSIG	
Jan.	1999	1504	010	1520	25296	816.00	I I I I I I I I I I I I I I I I I I I	0	
Feb.	1999	1504		1520	23312	832.57		0	
Mar.	1999	1560	-11	1650	31588	1018.96		0	
Apr.	1999	1657		1680	30211	1007.03		0	
May	1999	1637		1650	38980	1257.41		0	
June	1999	1645		1680	32489	1082.96		0	
July	1999	1411		1620	29605	970.65		NA	
Aug.	1999	1660		1800	29349	946.74		NA	
Sept.	1999	1580		1600	29289	976.30		NA	
Oct.	1999	1586		1620	31781	1025.19		20	
Nov.	1999	1636		1650	28439	1220.55		1550	
Dec.	1999	1660		1680	15043	895.41		450	

NA=Not Available NOTE: Permit exceedances resolved per December 1999 Consent Agreement in SDWA#8-99-70

# CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
W. D. Holmes Operations Manager	workolm	February 9, 2000



1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

February 10, 2000

Mr. Bahram Jafari U. S. Environmental Protection Agency Region VIII, Mail Code 8 ENF-T 999 - 18th Street, Suite 500 Denver, Colorado 80202

Certified Mail Return Receipt Requested Z 301 626 053

Re: 1999 Annual Reports Steamboat Butte Field Circle Ridge Field

Wind River Indian Reservation

Dear Mr. Jafari:

Attached please find the EPA Annual Reports and water analyses for the above mentioned fields. As noted, the 1999 Annual Report contains permit exceedences that were previously reported to the EPA and resolved per the December 1999 Consent Agreement in SDWA #8-99-70.

Should you have any questions, please contact Mr. Charles R. Adams at the above address, or phone number (307) 527-2127.

Sincerely,

MARATHON OIL COMPANY

William D. Holmes Operations Manager Rocky Mountain Region

WDH:CRA:dle

Attachments

Received Office of Enforcement

FEB 11 2000

Compliance & En. Justini

Billings • Casper • Gillette Holena • Rapid City

### **ENERGY LABORATORIES, INC.**

SHIPPING: 2393 SALT CREEK HIGHWAY . CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602 E-mail: energy@trib.com • FAX: (307) 234-1639 PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

# LABORATORY ANALYSIS REPORT MARATHON OIL COMPANY

Sample ID: Sample Date/Time: Sample Matrix: Laboratory ID: Report Date:

From-ENERGY L

Stean	nboat Butte Injection Plant
	11-16-99/15:57
	Water
100	34614-001
1	December 6, 1999

Non-Metals	Method	Units	Reporting Limit	Results
Total Dissolved Solids @ 180°C	SM 2540 C. Mod.	mg/L	10.0	5070
Conductivity	EPA 120.1	μmho/cm	1,0	7210
pH	SM 4500-H B.	sid, units	0.10	7.23
Specific Gravity	EPA 120,1	• • • •		1.004

REVIEWED

BY: Baj

DATE: 2-18-00

211:

TED . ZUUI

Compliance & Env. Justice





1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

February 10, 2000

Mr. Bahram Jafari U. S. Environmental Protection Agency Region VIII, Mail Code 8 ENF-T 999 - 18th Street, Suite 500 Denver, Colorado 80202

Certified Mail Return Receipt Requested Z 301 626 053

Re: 1999 Annual Reports

Steamboat Butte Field Circle Ridge Field

Wind River Indian Reservation

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Sincerely,

MARATHON OIL COMPANY

William D. Holmes Operations Manager Rocky Mountain Region

WDH:CRA:dle

Attachments

REVIEWED

Receiver Office of Enforcement

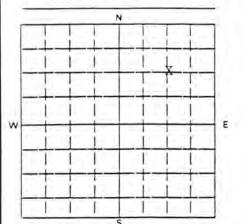
FEB 1 0 2000

Compliance & Env. Justice

### WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE Marathon Oil Company 1501 Stampede Ave. Cody, Wyoming 82414 NAME AND ADDRESS OF CONTRACTOR R & S Well Service P. O. Box 1148

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES



STATE	COUNTY		PERMIT NUMBER
WY	Fremont		WY2000-02141
SURFACE LI	OCATION DESCRIPT	NON SW 1/4 of NE 1/4 of Section	5 Township 3N Range 1W
Surface Location 1	600tt. from (N/S)	ONS FROM NEAREST LINES OF QUARTHE STATE OF QUARTHE SECTION  Line of quarter section	
WEL	L ACTIVITY Disposal	Total Depth Before Rework 7,296'	TYPE OF PERMIT  Individual
	ced Recovery arbon Storage	Total Depth After Rework 7,296	Area Number of Wells
	Vame	Date Rework Commenced	Well Number
Lease A	same .	12/01/99	

WELL CASING RECORD - BEFORE REWORK Casing Cament Perforations Acid or Fracture Size Depth Sacks Type From Treatment Record To 9-5/8 1,024 300 'H' 5 - 1/27,296 1,290 'H' 6,991 7,016 7,036 7,052 7,110 7,120 7,138 7,148

WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only) Casing Cement Perforations Acid or Fracture Sacks Treatment Record Size Depth From

WIRELINE LOGS. LIST EACH TYPE DESCRIBE REWORK OPERATIONS IN DETAIL Log Types USE ADDITIONAL SHEETS IF NECESSARY Logged Intervals Pulled injection equipment. Round trip scrape to 7001'. Replaced bad tubing. Re-run injection equipment, setting 5-1/2" packer at 6895 The MIT, well activity report and wellbore

diagram are attached.

### CERTIFICATION

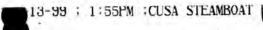
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type	or print)
Randy P. Meabon	
Regulatory Coordinator	

SIGNATURE			
Roud D	Markon	1	E.V
Kanary 1.	Malian	05	MI
0		U	

DATE SIGNED 12/14/99

3



# Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Emironmental Protection Agency Underground Injection Cuntral Program, UIC Direct Implementation Program &P-W-GW

999 18" Street, Suite 500 Denver, CO 80202-2466

Well Name: E-30		Type: (ER) SWD State	us: AC UC
Field: Steambort  ocation: SIU NE. Sec.  Operator: Maratho  ast MIT: 11 / 3	B.H. 5 T.3(N) S R.L.	E (W) County: 3/14/1007	state:WY PSIG
	aled test? [ ] Yes [X]	No DET	TENTER
		No.	IEWED
	permit? [X] Yes []		sal N
Test after well	rework? [X] Yes []	DATE:	2/21/99 bpd 6/3
Well injecting du	ring test? [ ] Yes [ ]	No if Yes, Fate:	1 / upa vi
re-test casing/tubing annulu		2.25	· · · · · · · · · · · · · · · · · · ·
		77 . 40	Test 43
MIT DATA TABLE	Test #1	Test #2	161 15
TUBING	PRESSURE		
TUBING  Initial Pressure	PRESSURE Psig	psig	
Initial Pressure	. 0	psig	
	? psig	1.01	
Initial Pressure  End of test pressure  CASING / TUBING	2 psig	nsig	nsis
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes	psig psig	PRESSURE nsig	nsis psis
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes	psig psig psig ANNULUS  / 000 psig	PRESSURE psig	nsis psis psis
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes  10 minutes	psig psig psig psig  ANNULUS  1000 psig 995 psig 990 psig	PRESSURE psig	psis psis psis
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes  10 minutes  15 minutes	psig psig psig psig  ANNULUS  / 000 psig 9 9 5 psig 9 90 psig 9 90 psig	PRESSURE psig psig	psig psig psig psig
Initial Pressure End of test pressure CASING / TUBING  0 minutes 5 minutes 10 minutes 15 minutes 20 minutes	psig psig psig psig  ANNULUS  / 000 psig 9 9 5 psig 9 90 psig	PRESSURE  psig psig psig psig psig	psig psig psig psig
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes  10 minutes  15 minutes  20 minutes  25 minutes	psig psig psig psig  ANNULUS  / 000 psig 9 9 5 psig 9 90 psig 9 70 psig 9 70 psig 9 85 psig 9 80 psig	PRESSURE  psig psig psig psig psig	psig psig psig psi psi
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes  10 minutes  15 minutes  20 minutes  25 minutes  30 minutes	psig psig psig psig  ANNULUS  / 000 psig 9 9 5 psig 9 90 psig 9 70 psig 9 70 psig 9 85 psig 9 80 psig 9 80 psig	PRESSURE  psig psig psig psig psig psig	psig psig psig psig psig psig psig
Initial Pressure  End of test pressure  CASING / TUBING  0 minutes  5 minutes  10 minutes  15 minutes  20 minutes  25 minutes	psig psig psig psig  ANNULUS  / 000 psig 9 9 5 psig 9 90 psig 9 70 psig 9 70 psig 9 85 psig 9 80 psig	PRESSURE  psig psig psig psig psig psig psig psi	psi psi psi psi psi psi

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

Well Call them Re these Presures

Page 1 of 2

(over)

# MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to any	nulus
and bler back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:	

Larrel : hark					` '	about \$
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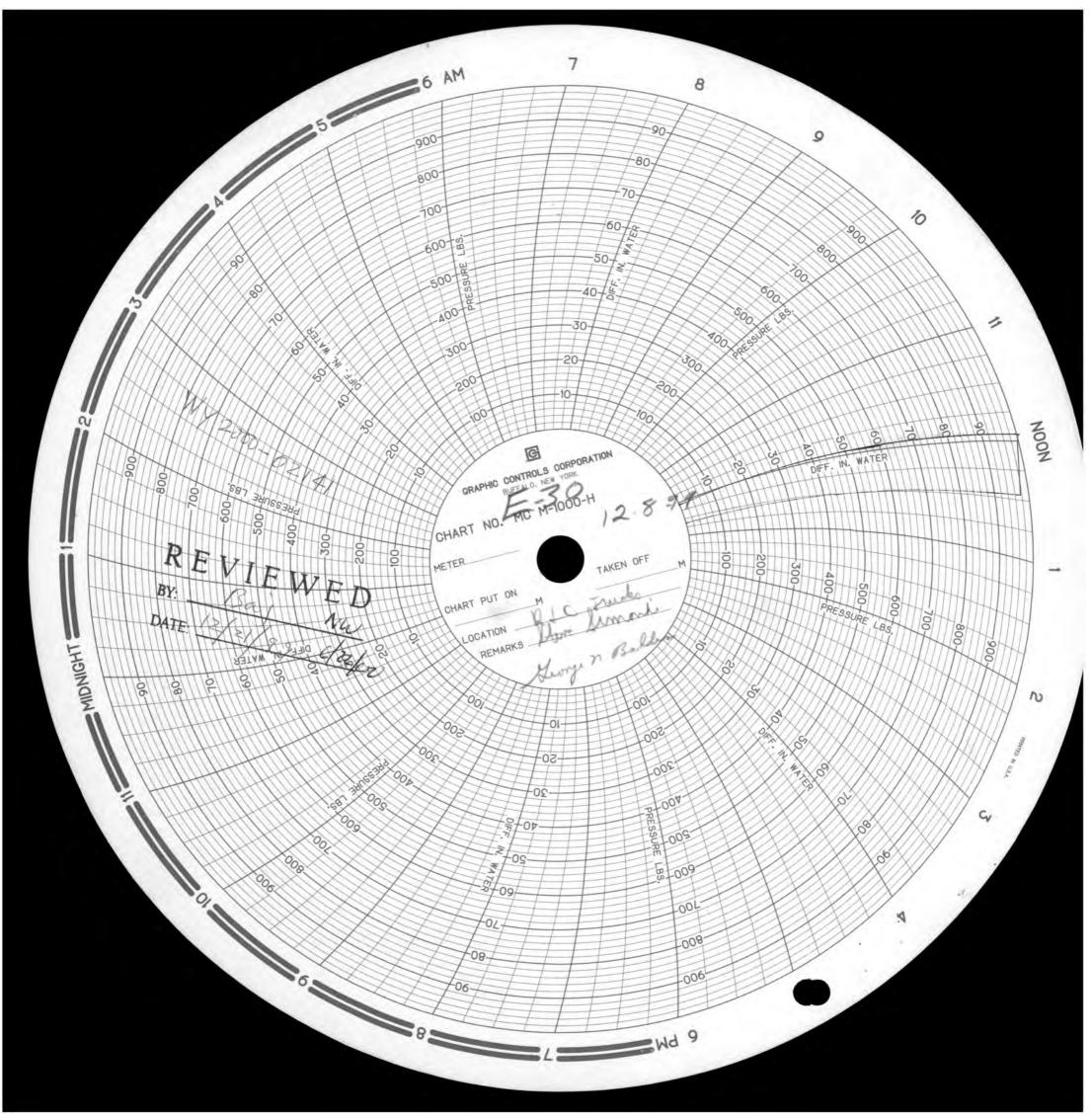
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2-2-1- TETE - 4	Contract with		Date: /	<b>观测性</b>
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Do you agree with the reported tes	t results?	YES TIP INO		
A CONTRACTOR OF THE PROPERTY O				The second second
It not why?				
Possible violation identified?	IYES * [ ] NO		300	
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If YES followup initiated?	I YES		The second second	( Company of the Comp
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NO-why no?	PARTIES AND THE PROPERTY OF THE PROPERTY OF THE PARTY OF	and the second second second		
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[ ] Data Entry

[ ] Compliance Staff

[ ] 2 Data Entry

[ ] Hardcopy Filing



13-DEC-1999 01:51:34 PM

MOC MORNING REPORT ACTIVITY REPORT FOR TRIBAL E 30 FROM 24-NOV-1999 TO 12-DEC-1999

Page: 2 REGION: RMR

FIELD: STEAMBOAT BUTTE

OPR PROP: STEAMBOAT BUTTE

INTENT: DOWNHOLE OTHER

24-NOV-1999 Shut well on due to pressure on backside.

SHUT-IN/RIG DATA

SI DATE

MIRU DATE

RIG NAME

RIG#

24-NOV-1999

01-DEC-1999 MIRU R&S #26. Charlie Adams got permission from Bahrm Jafari with the EPA on 11/30/99 to release packer. Released packer and POH.

SHUT-IN/RIG DATA

SI DATE

MIRU DATE

RIG NAME

RIG#

24-NOV-1999

01-DEC-1999

R&S WELL SERVICE

26

02-DEC-1999 Finished POH with packer. RIH with 5 1/2" scraper to 7001'. POH with scraper to 2100'. SION.

SHUT-IN/RIG DATA

SI DATE

MIRU DATE

RIG NAME

RIG#

24-NOV-1999

01-DEC-1999 R&S WELL SERVICE

03-DEC-1999 POH with wet string. Bit, scraper and bottom joint of tubing was plugged with scale. RIH with RTTS packer and tubing tester. Set packer at 6943'. Filled annulus with 45 bbl of water. PT annulus to 500 psi and lost 200 psi in 30 seconds. Reset packer at 6912' and filled annulus with 6 bbl of water. PT to 1000 psi and lost 800 psi in 5 minutes. Too dark to test tubing. SION.

SHUT-IN/RIG DATA

SI DATE

MIRU DATE

RIG NAME

RIG#

24-NOV-1999 01-DEC-1999

R&S WELL SERVICE

26

04-DEC-1999 Closed tubing tester and filled with 10 bbl of water. PT tubing to 1000 psi and lost 600 psi in 5 minutes. PT tubing and pumped in at 0.5 BPM and 1200 psi. Released packer and POH with wet string while LD tubing. Found hole in tubing as shown below. Pulled to 101 joints and found  $\hat{2}$ joints of tubing plugged with scale. Finished LD tubing. SION.

SHUT-IN/RIG DATA

SI DATE

MIRU DATE

RIG NAME

RIG#

24-NOV-1999

01-DEC-1999

R&S WELL SERVICE

26

FAILURE DATA

FAILED EQUIP: INJ TUBING LOCATION: BODY

SIZE: 2 7/8

DEPTH #JTS: 30 LINER: FLR CAUSE: INT CORROSION

TYPE OF FLR: HOLE CURRENT RIG: R&S 26

COST: 0

COMMENTS:

07-DEC-1999 RIH with 5 1/2" Model R packer, 2 7/8" SN, 218 joints of 2 7/8" IC tubing and 10 joints of 2 7/8" regular tubing. Ran SV in place. PT tubing to 1500 psi and it held for 15 minutes. Fished SV. SION.

SHUT-IN/RIG DATA

SI DATE 24-NOV-1999

MIRU DATE 01-DEC-1999

RIG NAME

R&S WELL SERVICE

RIG#

INTENT: UIC

08-DEC-1999 RU R&C truck with chart recorder. Pump 130 bbls produced water. Set packer at 6895'. Pressured annulus to 1000 psi, dropped 20 psi in 30 min. NU injection lines. RDMO R&S #26. Will request written approval from the EPA to commence injection.

13-DEC-1999 01:51:35 PM

C MORNING REPORT ACTIVITY REPORT FOR TRIBAL E 30 FROM 24-NOV-1999 TO 12-DEC-1999

Page: 3 REGION: RMR

FIELD: STEAMBOAT BUTTE

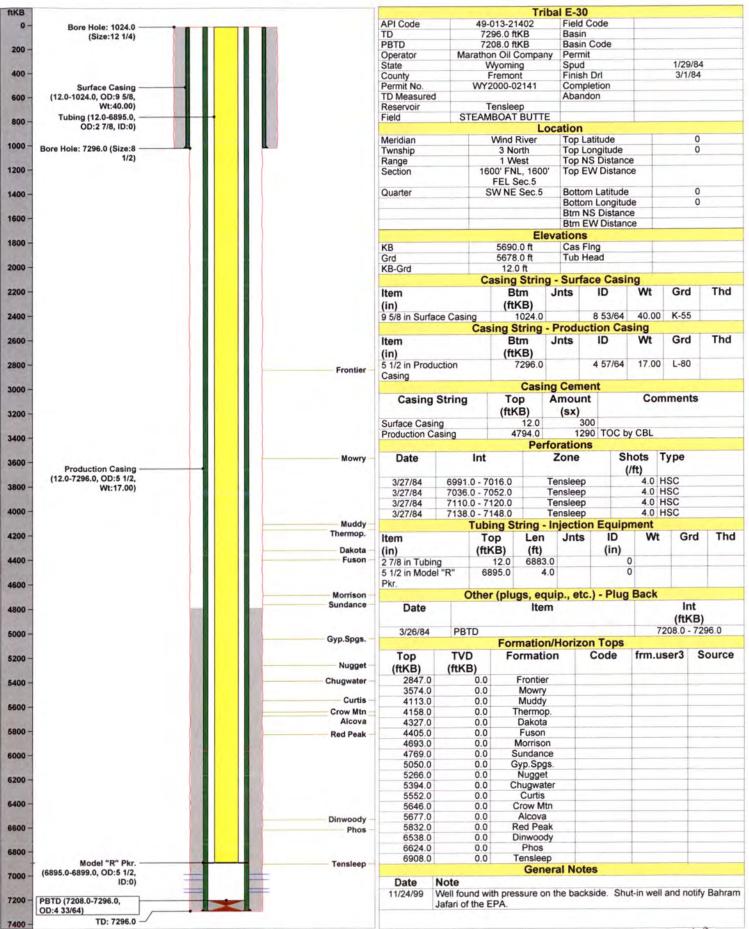
OPR PROP: STEAMBOAT BUTTE

SI DATE MIRU DATE RIG NAME 24-NOV-1999 01-DEC-1999 R&S WELL SERVICE SI DATE

RIG# 26

TEST PRESSURE(psi): 1000 TIME(minutes): 30 STATE WITNESS: YES

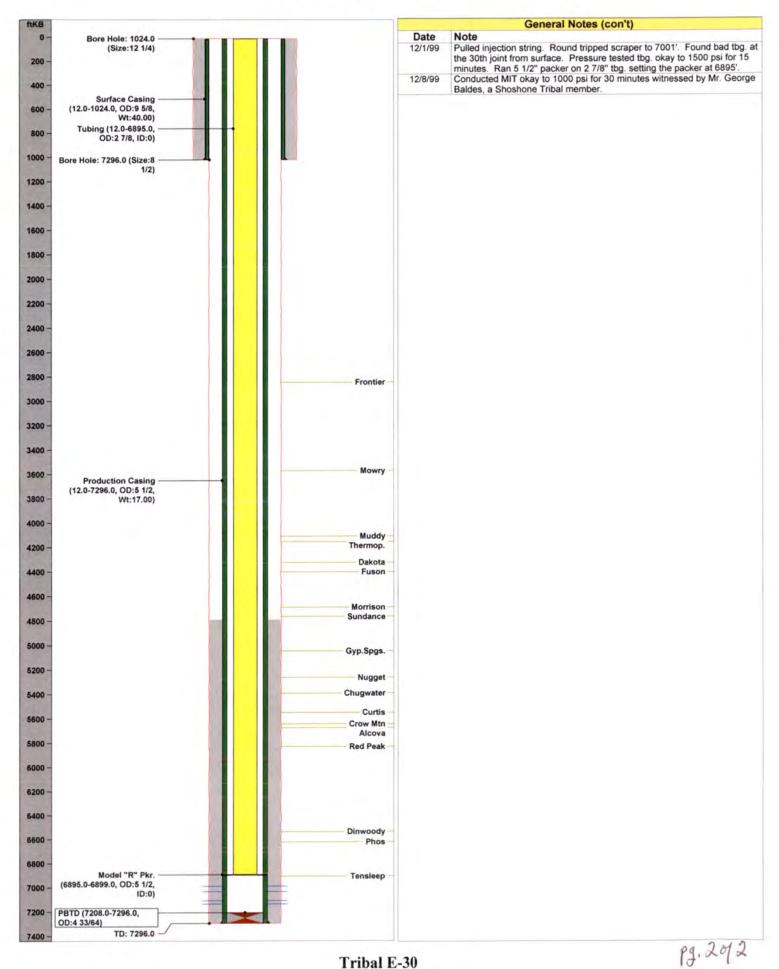




Tribal E-30

19.10/2









Compliance & Env. Justice

1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

December 13, 1999

0661 UZ 330

Hecelved

Unice of Enforcement Mr. Bahram Jafari US Environmental Protection Agency Mail Code 8ENF-T 999 18th Street, Suite 500 Denver CO 80202-2466

RE: Underground Injection Control Tribal E-30 EPA # WY2000-02141 SW NE Sec.5, T3N, R1W Steamboat Butte Field Wind River Indian Reservation

Certified Mail Return Receipt Requested Z 301 626 040

### INJECTION STRING REPAIR AND REQUEST PERMISSION TO RESUME INJECTION

Dear Mr. Jafari,

Marathon Oil Company would like to inform EPA Compliance about the injection string repair for the above UIC well, Tribal E-30, in the Steamboat Butte Field.

During investigation it was determined that there was a tubing failure at this well. After the repair, the injection equipment was re-run as indicated on the well bore diagram. Additionally attached is the Well Rework Record, a well activity report for this well, and the successful MIT with chart witnessed by Mr. George Baldes, a Shoshone Tribal member.

Marathon Oil Company requests permission to resume injection into this well after EPA review of the necessary documents and the confirmation that there is no further actions required on this well due to the compliance issue from October 1, 1999.

Should you require additional information, please contact Charles R. Adams at the above letter head address or phone (307)527-2127.

Sincerely,

MARATHON OIL COMPANY

Randy P. Meabon

Regulatory Coordinator

RPM/CRA/DLC (3156-12) E30Repair.doc Attachments

xc: Ms. Carol Bowden - EPA, 999 18th Street-Suite 500, Denver CO 80202-2466 K.J. Iler, T.E. Fitzsimmons, M.E. Blakesley, J.F. Salomonsen-Steamboat Field Office, & "WRF"



1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

December 1, 1999

Mr. Bahram Jafari
US Environmental Protection Agency
Mail Code 8ENF-T
999 18<sup>th</sup> Street, Suite 500
Denver CO 80202-2466

RE: Tribal E-30 EPA # WY2000-02141 SW NE Sec.5, T3N, R1W Steamboat Butte Field Wind River Indian Reservation BY: - 1/12/50

Suspected Injection String Failure

Dear Mr. Jafari.

Marathon Oil Company would like to follow up to EPA Compliance about a suspected injection string failure per phone message and e-mail submitted November 24, 1999. The Tribal E-30 well in the Steamboat Butte Field on the Wind River Reservation was noticed on November 24, 1999, with approximately 1550 psig pressure on the backside and approximately 1650 psig on the tubing. The well had no pressure on the backside during the proceeding week. The well was immediately shut-in and the EPA compliance staff notified. A copy of the procedure for the repair has been attached.

Following the repair, a MIT will be performed and a Well Rework Record (EPA Form 7520-12) along with a well bore diagram will be submitted within 30 days of the operation. Additionally, this was a well on the compliance issue previously issued and Marathon would like to confirm that no other action is needed on this well in order to resume injection after the repair.

Should you require additional information, please contact me at the above letter head address or phone (307)527-2127.

Sincerely,

MARATHON OIL COMPANY

Charles R. Adams Adv.Engr.Tech. HET: -6 1999

Received

Compliance & Env. Justice

CRA/ (3156-12) E30TbgFail.doc Attachment

XC: Ms. Carol Bowden, EPA, 999 18th Street-Suite 500, Denver CO 80202-2466 K.J. Iler, T.E. Fitzsimmons, M.E. Blakesley, & "WRF"

Ces

Approvals

Needed Rcv'd

AFE
Surf Sundry

X DH Sundry

X 407
NPDES
Pit Sundry

(WRF-999) R. B. Lane November 30, 1999

### Tribal E #30 Steamboat Butte Field Injection Well Repair Procedure

### WELL DATA:

Location:

1600' FNL, 1600' FEL, Sec. 5, T3N, R1W Fremont County, Wyoming

Elevation:

GL: 5678'

KB: 5690'

Depth:

TD: 7296'

PBTD: 7208'

Casing:

Surface..........95/8", 40#, K-55 set @ 1024' with 300 sxs cement.

Production ......5½", 17#, L-80, set @ 7296' with 1290 sxs cement. Cement top at 4794' from KB by CBL.

#### Perforations:

Tensleep

6991' - 7016' (4 SPF)

7036' - 7052' (4 SPF)

7110' - 7120' (4 SPF)

7138' - 7148' (4 SPF)

**Proposed Status:** 

Active Tensleep Injector

### Estimated Well Cost: \$

### JUSTIFICATION:

This well has experienced a MIT failure resulting in a pressure increase on the casing/tubing annulus. The well will be pulled to determine the source of the failure, repaired and returned to active injection status.

### PROCEDURE:

1) MIRU.

- 2) Call the EPA, notify them of the well conditions and ask if they want to be notified 24 hours before the MIT (step 7) so that they can witness it. If they do not want to witness the MIT, then ask a Tribal member to witness the test. (Include this phone call in the MRP.) Haul two additional joints of 27/8" tubing to location to allow the packer seating depth to be within 100' of the top perforation.
- 3) Release the Baker model 'R' packer and TOOH standing back the injection tubing. LD the packer and send it in to be redressed. PU and RT a 5½ casing scraper to the top perforation.
- 4) PU a 5-1/2" RTTS packer and a SN and TIH on the end of the injection tubing with a SV in place. PT the tubing to 2000 psi. If the tubing has a leak, change out leaking joints.
- Set the packer at approximately 6950'. PT the annulus to 1000 psi. Report results to Brad Lane and Charlie Adams. If casing leaks exist, notify Brad Lane and repair leaks.
- 6) When repaired, RIH with the Baker model 'R' packer, 1 joint of 27/8 tubing, 2.25" ID 'F' nipple, 221 joints 27/8" tubing. Set the packer at approximately 6902'. NU wellhead.
- Load backside with packer fluid. Conduct a MIT witnessed by the EPA or a Tribal member. Pressure test to 1000 psi for 30 minutes, and record the test on a chart.
- Obtain approval from the EPA to resume injection and POI. RDMO. Record rate and pressure and report to Brad Lane.

cc: JFS

CRA

EWS - Steamboat

**RPM** 

KKS

'WRF'

A DDD OVED

TEFitz

APPROVED

tames 12/1/89

API# 49-013-21402	STEAMBOAT BUT FIELD - TRIBAL Ei-30
	KB = 5690' GL = 5678'
	LOCATION = SEC. 5, T3N, R1W 1600' FEL & 1600' FNL FREMONT COUNTY, WYOMING
9-5/8" 40#/ft, K-55 csg set at 1024'w/300 sxs cmt	JULY 1984 - Initial completion as a Tensleep water injection well.
TOC at 4794' (CBL)	
	Baker Mdl "F" Seating Nipple
Tensleep Perfs	Baker Mdl R3 Double Grip Pkr at 6883
4 spf from 6991 to 7016 =	
4 spf from 7036 to 7052′ ≡	
4 spf from 7110 to 7120 =	
4 spf from 7138 to 7148' ≡	
	PBTD - 7208'
5-1/2" 17 #/ft. L-80 csg set @ 7296'w/1290 sxs cmt	TD - 7296'
Completion Date: 7/2/84	Well Type: Injector
Drawn By: R. B. Lane	Date Prepare 1: 11-30-99



1501 Stampede Avenue Cody, WY 82414-4721 Telephone 307/587-4961

November 9, 1999

Ms. Carol Bowden
US Environmental Protection Agency
999 18<sup>th</sup> Street – Suite 500
Denver CO 80202-2466

RE: Tribal E-30 EPA #WY2000-02141
SW NE Sec.5, T3N, R1W
Steamboat Butte Field
Wind River Indian Reservation
Fremont County, Wyoming

eoligible of Environment

6661 5 I NON

Office of Enforcement

Dear Ms. Bowden,

Attached find a mechanical integrity test conducted on November 2, 1999, for the Tribal E-30 well on the Wind River Indian Reservation and witnessed by Mr. George N. Baldes, a Shoshone Tribal member. Additional witnesses included Mr. Richard Burnette and Mr. Chester Pingree of the Shoshone Oil and Gas Commission.

Please respond by return mail to the above letter head address or phone (307)527-2087 if I may be of further assistance or if additional actions are required for this well.

Thank you for your prompt attention to this matter.

Sincerely,

MARATHON OIL COMPANY

Charles R. a Jams

Charles R. Adams

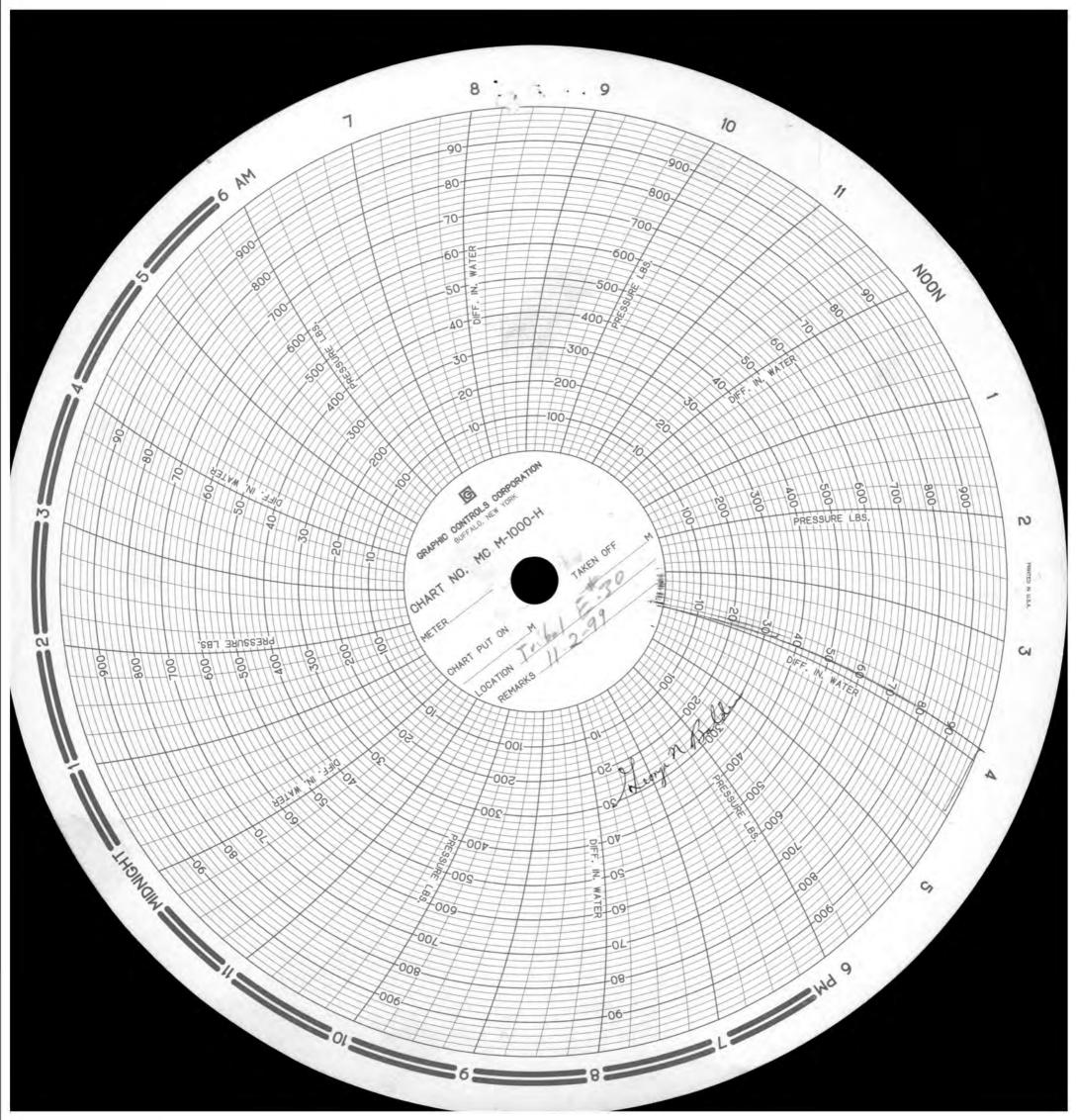
Adv.Engr.Tech.

CRA/(3156-12) E30MIT.doc Attachment

xc: K.J. Iler

T.E. Fitzsimmons

Mr. Bahram Jafari, EPA, Mail Code 8ENF-T, 999 18th Street - Suite 500, Denver CO 80202-2466



# Mechanical Integrity Test ' Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW 999 18th Street, Suite 500 Denver, CO 80202-2466

Stock Witness: Kahal OG	Chis	tes lins	(11 M Date:	199
Test conducted by: R+C	Trucking	7.7		
Others present:	. Strondi- T	ester	•	<del></del> -
Weil Name: Tribal Field: Steamboat Bu Location: SW NE Sec: Operator: Marathon Last MIT: 10 / 21	5 T 3 (N) S Oil CO.	·	Type: ER SWD State  E / W County: Fremont  ble Pressure: /860	
Is this a regularly schedu	ıled test? Yes	s [ ]	No	
	r permit? [ ] Yes			13
	rework? [ ] Yes			
				1705 bpd
Pre-test casing/tubing annulu		٥	psig	
MIT DATA TABLE	Test #1		Test #2	Test #3
TUBING	PRESSURI	E		
Initial Pressure	1550	psig	psig	psig
End of test pressure	1550	psig	psig	psig
CASING / TUBING	ANNULUS	3	PRESSURE	
0 minutes	1000	psig	psig	psig
5 minutes	1000	psig	psig	psig
10 minutes	1000	psig	psig	psig
15 minutes	1000	psig	psig	psig
20 minutes	1000	psig	psig	psig
25 minutes	1000	psig	psig	psig
30 minutes	995	psig	psig	psig
minutes		psig	psig	psig
minutes	F	psig	psig	psig
RESULT	[ Pass [	]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test? [ ] Yes [X] No

407

# MECHAN AL INTEGRITY PRESSUI TEST

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		****	
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FICE USE ONLY - COMPLIANCE  f  you agree with the reported test rest	E FOLLOWUP	D.	ate: 1 1
FICE USE ONLY - COMPLIANCE  f  you agree with the reported test reserved, why?	E FOLLOWUP	D.	ate: 1 1
FICE USE ONLY - COMPLIANCE  f  you agree with the reported test results  not, why?  sible violation identified? [ ] YE	E FOLLOWUP	D.	ate: 1
FICE USE ONLY - COMPLIANCE  f  you agree with the reported test results of the complete of the	EFOLLOWUP ults? [ ] YES	D.	ate: 1
FICE USE ONLY - COMPLIANCE  f  you agree with the reported test results  not, why?  sible violation identified? [ ] YE	EFOLLOWUP ults? [ ] YES	D.	ate: 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENC WASHINGTON, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITURING REPORT NAME AND ADDRESS OF SURFACE OWNER NAME AND ADDRESS OF EXISTING PERMITTEE JOINT BUSINESS COUNCIL MARATHON OIL COMPANY P.O. BOX 217 1501 STAMPEDE AVENUE FORT WASHAKIE, WY 82514 CODY, WYOMING 82414-4721 PERMIT NUMBER COUNTY LOCATE WELL AND OUTLINE UNIT ON WY2000-02141 WY FREMONT SECTION PLAT - 640 ACRES SURFACE LOCATION DESCRIPTION MOF SW MOF NE 14 SECTION 5 TOWNSHIP 3N LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface 1600 Location (SEE ATTACHMENT) 1600 from Ew E Line of quarter section TYPE OF PERMIT ☐ Individual ☐ Brine Disposal RULE AUTHORIZED E ☐ Enhanced Recovery ☐ Hydrocarbon Storage Number of Wells 19 ☐ Area Lease Name 14-20-0258- 06504 Well Number TRIBAL E #30 1860

TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING) TOTAL VOLUME INJECTED INJECTION PRESSURE MAXIMUM PSIG MINIMUM PSIG MCF MAXIMUM PSIG RRI AVERAGE PSIG YEAR MONTH 29,818 1,750 Jan. 26,922 Feb 1,752 20,832 1,624 Mar. 1,703 42,830 Apr. 1,648 36,242 May 48,650 1,761 June 41,637 1,785 July 34,458 1,798 Aug. 28,934 1,810 Sept. 43,040 1,784 Oct 24,868 1,576 Nov. 25,236 1,510 Dec.

#### CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) R.P. Meabon	SIGNATURE	DATE SIGNED
Regulatory Coordinator	Remede	2/8/99

SEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGE WASHINGTON, DC 20480

### ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

MARATHON OIL COMPANY
1501 STAMPEDE AVENUE
CODY, WYOMING 82414-4721

JOINT BUSINESS COUNCIL P.O. BOX 217 FORT WASHAKIE, WY 82514

WY02141

PERMIT NUMBER COUNTY WY02141-2000 FREMONT WY SURFACE LOCATION DESCRIPTION 14 SECTION 5 TOWNSHIP 3N MOF SW 4 OF NE LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface 1600 Location (SEE ATTACHMENT) 1600 from Ew Line of quarter section TYPE OF PERMIT WELL ACTIVITY ☐ Individual ☐ Brine Disposal RULE AUTHORIZED Enhanced Recovery
Hydrocarbon Storage Number of Wells 19 ☐ Area Lease Name 14-20-0258- 06504 Well Number TRIBAL E #30

1860

	INJECTION P	RESSURE	TOTAL VOLUM	ME INJECTED	TUBING — CASING (OPTIONAL	ANNULUS PRESSURE MONITORING)
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIC
Jan. 1997	0		0			
Feb.	0		0			12
Mar.	0		7280		E G E I W	
Apr.	1680		62379	101	CER	74114
May	1692		33523	LIU .	122 - 12-14	( V
June	1680		24609		EPA m. om y	1141_
July	1771		41981			
Aug.	1770		26662	400		
Sept.	1780		17923	R	EVIE	MILE
Oct.	1761		32683	Ву	1	WED
Nov.	1736		35959	DA	TE: 02	10/1-
Dec.	1575		33400			10/10

CERTIFICATION 3/6399

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND	OFFICIAL T	TTLE (Please type or print)
R.P.	Meabo	n
Regu	latory	Coordinator

SIGNATURE

DATE SIGNED

### HAUCK ANALYTICAL SERVICES 613 MEADOWLARK LANE RIVERTON, WYOMING 82501 307-856-8183

April 26, 1997

Marathon Oil Company 1501 Stampede Avenue Cocy, Wyoming 82414

ATTN: Marvin Blakeksley

## ANALYTICAL RESULTS

SAMPLE NUMBER	172	173	174	175	
SAMPLE IDENTIFICATION	Steamboat Butte North	Steamboat Butte South	Circel Ridge Battery	Maverick Springs Battery	
WYOMING PERMIT NUMBER	WY-33740	WY-33758	WY-949	WY-779	
DATE	March 19	March 19	March 21	March 15	
TIME	2:00 PM	2:30 PM	10:00 AM	10:30 AM	
INITIALS	B.S.	B.S.	B.S.	B.S.	
PH (pH units) EPA Method 150.1	7.4	7.9	7.8	7,9	
TOTAL DISSOLVED SOLIDS (mg/l) EPA Method 160.1	4670	2880	710	1050	
CONDUCTIVITY (µmhos at 25°C) EPA Method 120.1	6600	4200	1210	1490	
CHLORIDE (mg/l SM 407A	982	474	69.7	35.7	
SULFATE (mg/l) EPA Method 375.4	1560	1160	189	462	

Dr. Eugene M. Hauck, Chemist

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- A Well Number: WY02/4/

# U.S. ENVIRONMENTAL PROTECTION AGENCY REGION VIII 40 CFR 144.21, SUBPART C AUTHORIZATION OF UNDERGROUND INJECTION BY RULE

10/10/10	FILE REVIEW SUMMARY	24/1
Preparation Date: 12/27/	70 Prepare	By: C. Williams
WELL IDENTIFICATION INFORMATION		
Well Name: £.30		Completion Date: 3-1-84
		Status Date:
Status: AC; TA;		
		from <u>E</u> line; <u>Sw</u> /4; <u>NE</u> /4
Section: 5 Township:		County: Fremont
Field Name: <u>Steamboar</u>	1 Butte	
	N. 200 A	
OPERATOR NAME & MAILING ADDRESS		
	Chevron U.S.A	1. Inc.
Phone: (303) 930-3000	P.D. Box 599	
	Denver CO 802	201

Sources of information used in this review are abbreviated as shown below. Other sources of information should be explicitly cited.

BIA = Bureau of Indian Affairs

BLM = Bureau of Land Management

FI = Field Inspection by EPA

FURS = Federal UIC Reporting System

MF = Microfiche copies of MTCGCC Records

PD = Program Description and Attachments

OF = Inspection of Operator Files

OS = Operator Submittal

8MO = Montana Operations Office

Description of Injection	Fluid: Produced	Water	Reporti	ing Period:	
Injection Rate: Maximum					
EPA ESTABLISHED OPERATIN	G LIMITS				
Surface Injection Pressur	res: Maximum	psi FRACTURE	GRADIENT FOR	FIELD:	psi/ft
AQUIFER EXEMPTION					
Ambient quality (TDS) of	Formation Fluid:	mg/l	Source		
Exemption Needed? Yes:_	_ No: Exemption	Issued? Yes: N	o: Source:		
Inspection Date: 4/5/	89 Routine: No	1	MIT:	P&A:	_ Other:
Inspection Date:	Routine:	Compliance:	_ MIT:	_ P&A:	_ Other:
Photographs:	Yes No	_			
Inspection Date:	Routine:	Compliance:	MIT:	_ P&A:	_ Other:
Photographs:	Yes No				
MECHANICAL INTEGRITY					
Date of last MIT:	Test Method		Source: _		
Pacc: Fail:			Source:		

FILE	REV.	EEW	SUMMA	RY	
CLASS	II	ENE	LANCED	RECOVERY	WELLS

		Number: W	1/0
EPA	Well	Number: //	70

Cementing Records Reviews (40 CFR 144.28(e)) - Make copies of con attachments to this review and/or enter needed data in space below on the well. Use rectangular coordinate paper and draw schematic to check cementing adequacy. Show geologic stratigraphy on the interior on the right side. Show calculations and assumptions. Identify and date, and attach to this file review.	ow. List any logs to in support of the left side and constr	hat have been run calculations made ruction features
Cement behind the pipe is: Adequate: Inadequate:	Insuffici	ent Data:
TRANSFER OF OWNERSHIP		
Transfer of Ownership from operator submitting original November	25, 1989 inventory	information:
	Y: N:	
If Yes: Previous Owner:		
EPA notified of Transfer of Ownership? Yes: By:		
No:		
Adequate Financial Demonstration Provided by new Owner/Operator?	Yes:	No:
Previous Owners Financial Demonstration Released?	Yes:	No:
22012005 Owners Thisnicial Demonstration Refeased:	165	140.
Transfer of Ownership Completed?	Yes:	No:

# EPA Well Number: WYO 2/4/

### SUMMARY OF NOVEMBER 25, 1989 OPERATOR SUBMITTAL

INVENTORY: Rec'd by Nov.	25, 1989:  Yes No	Adequate per 144.26: Yo	es: No:
II NO, auth	orization by rule automatical	ly terminates by 144.26.	
INJECTION FORMATION: Name	e: Tensteep	Formation Fluid TDS	mg/1
II nee	ded, has addited exemption be	en issued? Yes: No	
If "NO	," authorization by rule autor	matically terminates by 144.13	2.
PLUGGING & ABANDONMENT PL	AN: Rec'd by Nov. 25, 1989: _ Adequate per 144.28(c) &	Yes No Date Rec'd	11/14/89
FINANCIAL RESPONSIBILITY:	Rec'd by Nov. 25, 1989:   Adequate per 144.28(d) Yes	Yes No Date Rec'd	
MONITORING REPORT: Rec'd	by Feb. 15, '90: Yes ate per 144.28(g) Yes:	No Date Rec'd	
Adequ	ate per 144.28(g) Yes:	No:	
SUBSEQUENT MONITORING REP	ORTS: Adequate per 144.28(h)	Yes: No:	
Annual Report	1989:	Annual Report 1992:	
	1990:		
Annual Report	1991:	Annual Report 1994 :	
Reviewed for complia	nce w/maximum allowable inject	ion pressure and rate? Yes:	No:
SUBSEQUENT SUBMITTALS:	Plugging & Abandonment Plan:	Adequate per 144.28(c) &	146.10.
	Date Received:	Yes: No: _	
	Financial Responsibility:	Adequate per 144.28(d)	
	Date Received:	Yes: No: _	_

FILE REVIEW SUMMARY
CLASS II ENHANCED RECOVERY WELLS

	2.1	Va
EPA Well	Number: W	10

### NON-COMPLIANCE SUMMARY:

VI	OL	ATIONS WHICH AUTOMATICALLY TERMINATE AUTHORIZA	TION B	Y R	ULE:
_	_	Failure to submit inventory information 40 CF	R 144.	26;	Injection into a non-exemption USI
VI	OLA	ATTONS WHICH SUBJECT OPERATOR TO COMPLIANCE/EN	FORCEM	ENT	ACTIONS:
1	)	VI100 - MECHANICAL INTEGRITY Fail MI test Failure to test wells	I.	1	VI150 -FINANCIAL RESPONSIBILITY Inadequate financial demonatraction No Financial demonstration
(	)	VIIO5 - UNAUTHORIZED INJECTION Failure to submit inventory	(	1	VII55 - FAILURE TO MAKE REQUIRED NOTIFICATION
		information Injection into non-exempt USDW			30-day advance notification of MIT Notice of abandorment Change of Ownership
1	)	VIIIO - 24 HR. REPORTING &/OR WRITTEN FOLLOW UP		1	VI160 - FAILURE TO MONITOR
		Failure to notify EPA of non-compliance	i		VI560 - NO FLOW METER
1	1	VILLS - WELL CONSTRUCTION Inadequate Cementing &/or Casing	1	)	VII70 - REPORT IS INCOMPLETE, MISSING
(	1	VI120 - OPERATING REQUIREMENTS			Signatory Authority Failure to submit reports Financial Reports
(	1	VI520 - INJ. VIOLATION-PRESSURE OR INJ. BETWEEN CASING/WELL BORE			P&A Plan Well Rework Records Plugging Report
1	1	VI125 - FAILURE TO PROPERLY P & A Inadequate P&A Plan Failure to submit plugging report within	t	ĵ	VI175 -INVENTORY REQUIREMENTS Imadequate formation fracture data
		60 days of plugging	(	)	VI500 - INADEQUATE CORRECTIVE ACTION
1	)	VI525 - FAILURE TO NOTIFY OF WELL TA'D MORE THAN 2 YEARS	1	)	VI505 - INADEQUATE FORMATION TESTING REPORT
(	,	VII30 - FALSIFYING INFORMATION			
1	1	VI140 - COMPLIANCE SCHEDULE Failure to schedule activity as directed by EPA			
		Failure to provide information as directed by EPA			
t	1	VI540 - FAILURE TO APPLY FOR PERMIT as directed by EPA			
(	1	VI145 -RECORD RETENTION			

FILE REVIEW SUMMARY CLASS II ENHANCED RECOVERY WELLS EPA Well Number: WYO

### FOLLOW-UP ACTIVITIES:

Develo Call day	Parks.	By:	4
Permit Call-in:	Date:	by:	
Action:			
		Ву:	
Action:			
	Date:	By:	
Action:			
	Date:	Ву:	
4.3. 2.5. Vi. 14.			Data Arabana
rtify that this rule au e phrase):	thorized Class II in	jection well has been reviewed	and that (check approp-
	-desertes Hemil's		
It is not e	endangering usuw s, at	nd is in full compliance with	UIC program requirements
It is not e	endangering USDW's, bu	nt is not in full compliance w	ith UIC program require
It is not e	endangering USDW's, bu		ith UIC program require-
It is not e ments. The	endangering USDW's, burefore, appropriate e	nt is not in full compliance wenforcement/compliance action	ith UIC program require- has been initiated.
It is not ements. The	endangering USDW's, burefore, appropriate e	at is not in full compliance wenforcement/compliance action	ith UIC program require- has been initiated.
It is not ements. The Rule author only if a p	endangering USDW's, but the endangering usperopriate of the en	at is not in full compliance wenforcement/compliance action  CALLY TERMINATED and the operathis well.	ith UIC program require- has been initiated.
It is not ements. The Rule authoronly if a p	endangering USDW's, but the refore, appropriate of the rization has AUTOMATIC permit is issued for the rization SHOULD BE TEL	at is not in full compliance wenforcement/compliance action	ith UIC program require- has been initiated.  tor can resume injection
It is not ements. The Rule author only if a p	endangering USDW's, but the refore, appropriate of the rization has AUTOMATIC permit is issued for the rization SHOULD BE TEL	at is not in full compliance wenforcement/compliance action  CALLY TERMINATED and the operathis well.  RMINATED for cause and the ope	ith UIC program require- has been initiated.  tor can resume injection

Operator	: Chevron	Field Name: 5/car	mbost Butte
Well Nam	ne: <u>E · 30</u>	Well Number:	1402141
	1		
The maxi	unum injection pressure (MIP)	has been established th	rough the use of:
[ ] T [ ] 4	Pechnical data provided by the CFR 147.1354 (a) (i) which	operator or [ ] 40 CFR directs EPA to establi	147.1353 (b) sh MIP on field basi
	40 CFR 147,1354 (a) (i) (MIP on field pasis)	40 CFR 147.	<u>1253 (b)</u>
	MIP for field as	MIP = (0.73	3 - (0.433)Sg)ā
ITP=/	Frac. Grad (.433) (5.6.)	Sg = speci d = depth inj pe	
		MIP =	psi
	FRACTURE DATA  [ ] STEP RATE TEST dated [ ] ACID FRACTURE dated [ ]	, 19	
	Breakdown Pressure	psi psi	
	Formation pressure Fracture gradient	psi psi	
4	Proposed Maximum Surface Inj Pressure	psi	
	Hydrostatic head (= (Sg)0.43 Sg = specific gravity d = depth to inj perfs		
	5.U =	psi	
	Pp = (From Grad.) (depth)	=	
			3
1700 4			
IIP at s	urface (assuming NO friction	1053) 15-15 =	PSc.

wy0 2141

## UIC WELL DATA SHEET



Facility Name:	Steamboat Butte Waterflood			
Field Name:	Steamboat Butte Field			
Ownership:	Chevron U.S.A. Inc 100% WIO			
Legal Contact:	Chevron U.S.A. Inc. Attn: D. F. Forsgren, Environmental, Safety, Fire, & Health Coordinator Telephone: (303) 930-3000 or 930-3439 P. O. Box 599 Denver, CO 80201			
Well Name: <u>Tri</u>	bal E-30 Operating Status: AC			
Well Classificat	ion: 2R - Enhanced Recovery			
Curtiss, and/or	ed Fluids: Produced water from Tensleep, Phosphoria, Nugget, Lakota Formation in either the Steamboat Butte or Pilot Butte ke up water out of the Wind River TDS Avg. 3000 to 9000.			
Location: 1600	ft. FNL <u>1600</u> ft. FEL Sec. <u>5</u> T <u>3N</u> R <u>1W</u> Fremont Cty, Wyo.			
SW	_ QtrNE_ Qtr.			
TD: <u>7300</u> ft.	KB elev. <u>5691</u> ft. Date TD'd3/1/84			
Current Data				
Formation of Inj	ection No. Tensleep Interval 6991 ft. to 7148 ft.			
Tubing size & gr	ade <u>2-7/8", 6.5#, C-75</u> Packer depth: <u>6885</u> ft. PBTD <u>7207</u> ft.			
Injection Rates:				
Injection Pressu	res: <u>1650</u> psig Avg. <u>1700</u> psig Max.			
Last Mechanical	Integrity Test Date: 3/24/89			
Historical Data				
Hole Size, Casin	g and Cementing Records:			
Surface String:	Hole Size: 12-1/4"			
Casing: 9-5/8",	40#, set @ 1024'			
Cement: 400 sx				

### UIC WELL DATA SHEET

PAGE 2

Well Name:Tribal E-30	DEGELME
Intermediate String: Hole Size: Casing:	
Production String: Hole Size: 8-1/2"	
Casing: 5-1/2", 17#, set @ 7296'	
Cement: 590 sx Class H w/16% gel 700 sx Class H w/3% RCL	& 3% salt lead tail
Completion Record	
Date:Remarks	
3/84 Complete as injection well by perf's 7110-7120', 7138-7148', at 4 SPF, at 8/14/84	g Tensleep at 6991-7016', 7036-7052', acidized w/6000 gals 15% HCl PWOI on
8/84 Inject 2445 lbs of polymer to correstanted 8/29/84 to 9/6/84. PWOI	ect injection profile, injection
Prepared By: <u>K. Shaughnessy</u> Title:	Technical Assist. Date: 11/06/89
Reviewed By: Title:	5- PF Date: 0/8/89

W3214

EPA Form 7500-48 (11-79)

#### INSTRUCTIONS

Section I.	Enter date in order of month, day, and year.	Item F:	Insert the numeric county code acquired from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970,	
Section II.	In the first two positions, insert the appropriate U.S. Postal Services State Code. In the remaining positions, insert the appropriate DUNS, GSA, or State Facility Number, proceeded by a one position alphabetic identifier:		prepared by the U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.	
	D - DUNS Number G - GSA Number	Item G:	Place an 'X' in the box if the facility is located on an Indian reservatio	
	S - State Facility Number	Section V.	Legal Contact.	
	Example: A Federal facility ( $GSA-123456789$ ) located in Virginia would be entered as: VAG123456789.	Item A:	Place an 'X' in the appropriate box to indicate the type of legal contract.  For wells operated by a lease, the operator is the legal contact.	
Section III.	Transaction type,	Items B, C:	: Self-Explanatory.	
Deletion:	Place an 'X' in this box and enter the Facility ID Number.	Item D:	If the legal contact is an individual, give the name of his/her business	
First time	Place an 'X' in this box and fill in all appropriate information.	W P. F.	organization to expedite mail distribution.	
entry;	Discount (9) to this how were the Positive ID Womber and Gill in the	Item E, F, G, and H:	Self-Explanatory.	
Change of entry:	Place an 'X' in this box, enter the Facility ID Number, and fill in the information to be changed.	Item I:	Place an 'X' in the appropriate box to indicate the type of owner	
Section IV.	Facility Name and Location	Section VI.	Well Information.	
Item A:	Insert the official or legal name of the facility.	Item A:	Enter in these two positions the class and type of injection wells to be	
Item B, C, D, and E:	Self-Explanatory.		inventorized at this facility. Use the most pertinent code selected from the list below. For example: 2R for enhanced recovery injection wells and 3M for solution mining wells, etc.	

### CLASSIFICATIONS AND TYPES OF INJECTION WELLS

Item B:

Item C:

WELL CODE CLASS/TYPE	PRIMARY FUNCTION OF INJECTION WELLS	WELL CODE CLASS/TYPE	PRIMARY FUNCTION OF INJECTION WELLS	WELL CODE CLASS/TYPE	PRIMARY FUNCTION OF INJECTION WELLS
Class I	Industrial, Municipal, and	2 X	Other Class II wells	Class V	All Other Wells That Inject
	Nuclear Storage Wells That Inject Below Deepest Under— Ground Source of Drinking	Class III	Special Process Injection Wells		into or above an Underground Source of Drinking Water
	Woter.		(1.11)	5A	Air conditioning/cooling
	and the second and the second	3G	In situ gassification wells		water return well
11	Industrial disposal well	214	Solution mining well	5B	Sallalas basilas salls
1M	Municipal disposal well	3M	Solution mining well	3.13	Salinity barrier well /
	Manualpar anapasar man	3S	Sulfur mining well by Frasch	5D	Storm water drainage well
1 N	Nuclear waste disposal or		process		
	storage well	3T	Construction all	5F	Agricultural drainage well
1 X	Other Class I wells	31	Geothermal well	5G	Other drainage wells
- 11	Caret Class I wells	30	Uramium mining well		Other diamage nems
Class II	Oil and Gas Production and			5R	Recharge well
	Storage Related Injection	3 X	Other Class III wells	50	6-1-14
	Wells	Class IV	Hazardous Facility Wells That	5S	Subsidence control well
2A	Annular injection well	2.030.11	Inject into or above an Under— ground Source of Drinking	5 W	Waste disposal well
2D	Produced fluid disposal well		Water	5.X	Other Class V wells
2Н	Hydrocarbon storage well	411	Hazardous facility injection well		
28	Enhanced recovery injection			F. D.	7,700 (0.0) 700 050555

well.

EPA Form 7500-48 (11-79) REVERSE

Enter the total number of injection wells for each specified class/type.

Insert the number of wells for each class/type under each operation stati